

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, !=possible nucleotide insertion)
6906	37274	A	6957	2	1025	WRRIYQANGK*KNK/QKKAGV VILVSDKTDFKPTKIKRDKEGH YIMVKGSIQQEELTVLNIYAPN TGAPRFMKQVLRLDLQRDLDPH TTIMGDFNTPLSTLDRSARQKV NKDIQELNSALHQADLINIYRIL HPKSTEYTFISAPHRTYSKIDHI VGRKALLRKYKRTEIITDCLSD HSAIKLELRKKLTQNSTTWK LNNLLNDYWIHNKTAKAEIKM CFETSENKDTTYQNLWDTCKA VCREKFIALNAHKRKQERSKID TLTSQLKE/LEKQEQTSHSKASRR \\NLEEMDKYLDTYTLPRLNQEE FESLNRPITGSEIEAIINSLPTKKS SGPDGFTAKFYQ
6907	37275	A	6958	1	1661	
6908	37276	A	6959	2	1632	WRKIYQANGK/HKKAGVAIRV SDKTDFKPTKIKRDKEGHYLM VKGSIQQEELTILNIYATNTGAP GFIKVQLSDLQRDLDSTSIIIMED FNTPLSTLDISMRQKVNKDTQE LNSALHQEDLIDIYRTLHPKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRIKNLTQSRS TTWKLNNNN DYWVHKEMKADIKMFFETNES KDTTYQNLWDAFKAAEESLN RPITASEIVAIINSLPSKKSPGPD GFTAKFYQRYKEELVPFLLKLF QSIEKEGILPNSFDEASIIIPKLG RDTTKKENFRPISLMNIDAKILN KILANQIQQHIIKKLIHHHDQVGFI PGMQGWFNIIHKSINVQHINRT KDKNHHMIISIDAEEKAFDKIQQSF MLKTRNKLGIDGTYLKII RAIYD KPTANIIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEV LARAIRQ EKEIKGIQLGKEDVKLSLFADD MIVYLENPIVSAPNPLKLISNFS KVSGYKINVQKSQAFLYTNNR
6909	37277	A	6960	1	2169	

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6910	37278	A	6961	2	1255	EGKFRENRIKRNEQSLQEIWWDYVKRTNLRLIGVPESDWENGTKLENTLQDIIQENFPNLAR*AKIQRIRSQDPSTHLSRDTHRLKIKGWRKIYQANGKQKKAAVTILVSDKTNFKPTKIKRDNIGHYIMVKGSNQQEELTILNIYAPNTGAPRFIKQLVRDLQRDLDSTSIIITGDINIPLSTLDRSTKQKVNKDTQELNSALHQVDLIDIYRTLHPKSIEYTFFSAPHHTYSKVDHILGSKALLSKCERIEITNCNSDHSIAKLELRINKNLTNHSITWKLNLLFLNDYWVHNEMKAEIKMFFETSENKDTTYQNLWDAFKAVCRGKFIALNAHKRKQERSKIYTLTSQKELEKQEQTHSKASRRQEIKIRAELEIETQKTLQKLNESISHQLEWQSLKSQKTTGAGEDVEK
6911	37279	A	6962	1	1122	
6912	37280	A	6963	551	1536	EILSPPGLPYKSS*KKH*TWKGTGTSCC/INHAKIVTHRLKIKGWRKIYQANGKQKKAGVANLVDKTDFKPTKIKRDKEGHYIMVKGSIQQEELTTLNIYAPNTGAPRFIKQLVSDLQRDLDSTSIIIMGDFNTPLLTLDRSTRQKVNVKDQELNSALHQADLIDIYRTLHPKSTEYTFFSAPHHIYSKTDHILGSKALLSKCKRTEITNYLSDHSIAKLELRINKNLTKNRSTTWKLNNLLNDYWVHNEMKAEIKMFFETNENKDTTYQNLWDTFKAMCRGKFIAVNAHKRKQERSKIDTLSQKLELKQEQTHSKASRRQEITKI
6913	37281	B	6964	28	1209	
6914	37282	A	6965	1	1284	
6915	37283	B	6966	1	1056	
6916	37284	B	6967	124	963	
6917	37285	A	6968	3	1162	
6918	37286	A	6969	1	1364	
6919	37287	A	6970	1	1003	
6920	37288	B	6971	1	1129	

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6921	37289	A	6972	1	1917	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSQLQRDLDHSHTIIM GDFNTPPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTNQNHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDITTYHNLWDTFKAVCRGK FIPLNAHKRKQERSKIDTLSQL KELEKQEQTSHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLLARLIKKKREKNQI DAIKNDKGDTTDPTEIQTTIRE YCKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPITGAE IVAIINSPLTKKSPGPDGFTAKF YQRYKEELVPFLLKLFQSIEKE GILPNSFYEASIIILPKPGRDTTK KENFRPISLMNIDAKILNKKLA KRIQQHIKKLIHHDQVGFIQGM QGWFNIRKSINVQHINRAKDK NHMIISIDAEKAFDKIQQPMLK TLNKL\GIKYLGIGHLTRDVKDLF KENYKPLLKEIKEDTNKWKNIP CSWVGRINIVKMAILPKMCL*R RWTPPLCLLAAASLNRE*ERLV QPLLWRQMYCGPRHCRQVPQH RRLNWSPSLRLS
6922	37290	A	6973	1	2673	

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6923	37291	A	6974	261	2667	TWCSGRYMVGCR/DWHLVV/KGLRKLTVAEGEGGAGMSLG/ESGNKIKRDKEGHYIMVNGSIQ/QEELTILNIYAPNTGAPRFIKQV/LRDLQRDLDSDHTIIMRDFNPLS/ALERSTREKVNKDIQELNSALH/QADLVDIYRTLHPKSTEYTFFS/APHRTYSNIDHIVGSKALLSNC/KRTEIITKCLSDHSTIKLELRKK/LTQNRSTTWKLNNLLNDYWW/HNEMKAEIKMFFETIENKDTRY/QNLWDTFKAECRGKFIALNAH/KRKQERSKIDTLTSQLKELEKQ/EQTHSKASRRQEITKIRAEKET/ETQKTLQKINESRSWFERINKI/DRPLARLIKKKREKNLIDAICKN/DKGDDTTDPTEIQTTIREYYKHL/YANKLENLEEMDKFLDTYTLPRLNQEEVESLNPITGSEIVAIIN/SLPTKKSPGPDGFTAIFYQRHT/VSILISYCQGGSLMSQVYWNQQ/EKPPSSSNAPPGLSVNKAQHRH/VCCRGEMLKRVQVHYVRAGES/DSASFHCVAQGPRAFGKPLILS/KENHLLTVTAIAKLNHKLCEIK/SMGVFINTEPLYDSCLEQKHAFASPPATTHSTTMISKAKVIPML/SLTPGSFQTVESSLAPSAGKFQGTETSSLKTLINLCCPKLPSPSPA/HLGGGLPGGSQERPSRQYLYESA/RTTVLLGLGCPPLKQIQLRSQHS/SPLEYLESLPKKDRKKREKIQIN

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6924	37292	A	6975	1	1687	MLKGSIQQEELTVLNIYAPNTG APRCIKQVLSDVQRDLDNTLI MGDFNTPPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIIITNSLSDHS AIKLELRINKNLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETKENKDPTYQNLWDAFKAVC RGKFIALNAYKRKQERSKIDTL TSQLKELEKQEQTTHSKEIQTTIR EYYKHLTYTNKLENLEEMDKFL DTYTLPRLNQEEVESLNRPIGTS EIVAIINSLPTKKSPGPDGFTAEG YQRYKEEMHINRAKDKNHIIS IDAEEKAFDKIQQPMLKTLNKL GIDGTYFKIIRAIYDKPTVNIILN GQKLEAFPLKTGTRQGCPLSPL LFNIVLEVLRALARQEQEIKGIQ LGKEEVKLSLFADDMIVYVEN PLPSQPQNLL*GWLSNFSK/MSS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQFTR DVKDLFKENYKPLLNEIKEDTN KWKNIPCSWVGRNIVK\MAILP
6925	37293	B	6976	1	2431	

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6926	37294	A	6977	1	1921	MGESVQSLLTAAQKRSMMIQV AVAPRTPTLLLKLYKEKASKTQ LKKVNLVVQDGQSLESIEVHD HEPADTYKLLSLVKEPAEEIPR VIQNVFGHRSKKENLKD SYGLR QSSTMVATTWNNVSLMQHHSL RRPNRHLTASYPHFHFQEIPVNF FHSGRDSESGWNQHIKKDKE GHIMVKGSIQQEELTMNIYA PNTGAPRFINQVLSDIERDLDSH KIIMGDFNTPPLSTLDRSTRQKV NKDTQELNSALHQADLTDIYRT LHPKSTEYTLFSAPHHTYSKIDH IVGSKALLSKWKRTETIITNCLSD PRAIKLELRKKLTQRSSIWKL NNVLLNDYWVHNEMKAEIKIF FETNENKDTSCQNLWDTFKAV CRGKFIALNAHRRKQERSKIDT LTSQLKELEKQERTHSKASRRQ EITKIRAEMKEIETQK\TLQKINE SRSWFFEKINKIDRPLARLIK REKNQIDAIIKNNKGDIITDPTEI ETTIREYYKHYTNKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEVVIAINSLPTKKSPGP FTAEFHQRYKEKLISELLPM HTALKKQTQDLSDCAMFLYY QSVSVQTAINYHRLRGLNNRN LFLTVLEYSSLRSGCEHSRVL

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6927	37295	A	6978	1	1848	MSLT KMLICA ALLGLFCM LLGL RWQVAELIGMTLALSSTAIAM QAMNERNLMVTQMGRSAFAV LLFQDIAAIP LVAMIPLLATSSA STTMGAFALSALKVAGALVLV VLLGRYVTRPALRFVARSGLRE VFS AVALFLVFGFGLL EEVGL SMAMGAFLAGVLLASSE YRHA LESDIEPFKG LLLGAVFTPRVVV NIYSS ELRTAKNYQANGKQKK PGVAILVSDKTAF/KPTEIKRDK EGHY\IMVKGSIQQEELTILNIY APNTGAPRFIKQVLSDLQR DLD SHTLMMGDFN TPLSTLD\ RSTR QKV NKDTQELNSALHQADLIDI YRILHPKST EYTFFSAPH TYSK IDHIVGSKALLSKCKR TEIITNY LSDHSAIKLELRIKNL TQSRSTT WKLNNLLNDYWVHNEMKA E IKMFFETNEKDMTYQNLWDT FKAVCRGKFIALNAHKRKQERS KIDTLTSQLKELEKQE QTHSKA SRRQEITKIRAE LKEIETQKAIQ KINESRSW GPPGNCQQNYRNSE SGEKSAPEGQAQHAGPT EGKV PTFLYVGKEKFP PSYLLTRKSSH LPTCGDPICGEKCWRVPTTSGQ GNKADQWGGVGIGD TDHDSA
6928	37296	A	6979	1	2235	
6929	37297	A	6980	1	2955	

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6930	37298	A	6981	3	2156	KSLKDLMELKIMAQELCDEWT SLSRCNQLEERVSVMEDEMN EMKDKHRPKIKEWRKIQYQANG QQKKTRVANLVSDKTEFKPTKI KRDKEGHYIMVKGSIQQEELTI VNIYAPNTGAPRFIKKVLSDLQ RALDSHTIIMGDFNTPLSTLDRS TRQKVNKDIQELNSALHQADLI DIYRTLHPKSTEYTFFSAPHYTY PKIDHIVGSKALLSKCKRTEIIT NCLS\DHSAIKLELKIKLTQNL STTWKLNNLLKDYWVHKEM KAEIKMFFETNKNKDPTYQNF WDTFKAVCRGKFIALNAHKRK QEGFKIDTTLQLKELEKQEQT HSKASRRINKIDRPLARLIKRR EKNQIDTIKNDKGDITTDPTEIQ TTIREYYKHLYANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGAEIVAIINSLPTKSPGPDG FTAKFYQRYKEELVPFLLKLFQ SIEKEGLPNSFYEASIILIPKPGR DITKKENFRPISLMNIDAELNKI LASQMQQHQHKKLIYHNQVGFIH GMQGWFNHKS\INVHQHINRTK DKNHTIISLDAEKAFDKIQQPF MLKLKTLNKLGIDGMYLKIIRA IYDKPTANIIHWQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLR AVRKEKEIKRTQIGREEIKLSLF ADDMVYLENPIVSAQNLKLIS NFTKVGYSYKINVKKSQAFLYN
6931	37299	A	6982	3721	8717	MLPIKRHLANWI\SQLP\SVC CIEET\HLCRDAHRHKIKGWR KIYQANGKQNKTQQKKQGLQ ILVSDKRDFKPTKIKRDKEGHYI MVKGPIQQ\EEELTILNIYAP\NTG APRFIKQVLSQLQRDLDSTS\I MGD\FNTPLSTLDRSMRQKVNK DTQELNSALHQADLI\DIYRTLH PKSTEYTFFSAP\HHTYSKIDHIL GSKALLSKCKRTEIITNYLSD\H SA\KLKLRIKNLTNHSTT\WK LNNL

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6932	37300	A	6983	599	1074	NPRAWEKQQPPTSPQEFCLVCF VVHLQKSTREALNNNIKPLLS TFSQVPG/SINHSSCENVLAISL AIGGVTEGICTASTPFVLLGDVL DCLPLDQCCTIFTFVEKNVATW KSGTASLPAAFMAGVEHLWLF QVNGANCQWIYPSGVWRTVAL FSQLH
6933	37301	A	6984	1	312	
6934	37302	A	6985	2	484	QSRALLWPMLVDVIQPKPWKA PGSLGLPSCISAITVQSSPGLRLC SCGQGPVRVNTPGTKLPQPNRPV SLSFSQMKLTTSHWKSFHCPA *INPAQSSPGPWP*PQLSGCPAF QFLSFG*KSLLSSGNTASSPLW FLCWCFNLVQAKLPDGFRPA HRV
6935	37303	A	6986	234	405	ELKICSCDPITVRYNADDSTVSL SFSQMKLTTSHWKSFHCPA*I NPAQSSPGPWP
6936	37304	A	6987	1	2021	PTRPAAAQRARAAEKMSPPT PLFSLPEARTRFTKSTREALNNK NIKPLLSTFSQVPGSENEKKCTL DQAFRGILEEEIINHSSCENVLAIS ISLAMGEVTEGICTASTHFVLL GDVLDCLPLDQCCTIFTFVEKN VATWKSNTFYSAKGNYLLRMC NDLRRRLSKSQNTVFCGRIQLF LARLFPLSEKSGLNLSQFNLE NVTVFNTNEQUESTLGQKHTED REEGMDVEEGEMGDEEAPTC SIPIDYNLYRKFWSLQDYFRNP VQCYEKISWKTFKYSEEVLAV FKSYKLDLDTQASRKKMEEELKT GGEHVYFAKFLTSEKLMQLQL SDSNRRHILLQYLILFQYLGQ VKFKSSNYVLTDEQSLWIEDTT KSVYQLLSENPPDGERFSKMVE HILNTEENWSWKNEGCPDFV KERTSDTKPTRIIRKRTAPEDFL GKGPTKKILTGEELTRLWNLC PDNMEACKSETREHMPTLEEFF EEAIEQADPENMAENEYKAMN NSNYGWRALKLLARRSPHFFQP TNQQFKSLQEYLENMVIKLAKE LPPPSEEIKTGEDEDEEDNDALL KENESPVDVRRDKPVTGEQIEVF ANKLGEQWKILAPYLEMKDSEI RQIECDSEDMKMRACKQLLVAW QDQEGVHATPENLINALNKSQL SDLAESLTNDNETNS

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6937	37305	A	6988	155	811	EFYRTGKVHRAPGVQEVTEDP RDPLAQLATRDRKERRGSLDH LALRVREAQLDQLVPPEVAA KDLKAPRAPKAPVVPLGSPALR APVGTQAPRAHQAKRDSPALR ALLASRDFRAPLGSGLCSDLGD CQACLGYQACQAPRAPPALLA HQERWCPWPCRMSQPQHRRRT MAARLTGRTSQTNAIFQLRK FLRMQSFSVKTSLHILFS*TLER NSNG
6938	37306	A	6989	91	918	
6939	37307	A	6990	199	380	CSTSSRTY*IPSRCFSKG*HWRH TVNSNFGPMGNPSHPTTSAHH TVPLIESQPSSTSKK
6940	37308	A	6991	1	483	
6941	37309	A	6992	178	298	
6942	37310	A	6993	864	1298	RLQNRTILASDLSGSDRWRRTY RCL*RHGPRFSSCRLSRRPFDK TCRLMCHQRLSGFPQEQTQRDS RCIQLLFRQRFAAACPTHQVH VHRWRKPMVFLIESDLKYTV LSLPEECHTGAHEQSSHCLLSSL ASVDVHCSQRP
6943	37311	A	6995	2	348	KKKRKKKIEEEEEEEEEE\RE EEEGDEEQEEEE\EEEEEEEEE EEEEEEEEEEDDDDNGLQTL PGLHEMRVNLTSDGIISVWHF PFWHFSFLMPYEEGALLRLHLP
6944	37312	A	6996	1	192	
6945	37313	A	6997	1	507	MEKNEKEQEEEKKEKNSKKK EEEEEEEGGGEeeeeEEGEGGEE EEEEEEEEEeeeeEEEEE EEE/DKEEEEEEeeeeEEEEE EEEEEeeeeEEEEE\EEEKVVE EEDEFIWFGLNSLYFPSFSHFA WSQIPSREDEGERRLRVNSMIM DFTSNTNHVQLIVAR
6946	37314	A	6998	1	257	MGPIHKISHYVYANISKSEKVL KSEHFRSQAFQPGQQSETVSEK/ EEEDEEEEEEeeeeEEEEE EEEEEeeeeEEEEE EEEEEeeeeEEEEE
6947	37315	A	6999	1	156	
6948	37316	B	7000	1	757	
6949	37317	A	7001	1	279	

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6950	37318	A	7002	1	1226	MPSSKGVHVHSPPRYLAAKDF KMINKELTAAATFMEVIAEDNRF IYDGIDSNFEPELVFLEFFEALLS FAFICVTDQMKTSYTNVPADD VSGNKHETIYTILNQDAQNKP SAVMSHESDAAHSDSARSSSK LELSPDVNKIRKSEAMVKEKKK ADKKGEKSARSPSSLSDNLDFS KQDGNTTRQEMSPAGVPLLGM QLNEVKPKKDRQNVQQNE/GC HPIRRVHSQDTHSGKL*RGKGS W/DCMREKASQPDKAVVPIV*V /VPFENLQEEGEGRCEECPDEP RRVHVAGRSMYEGERVNGMR NGFGMFKCSTQPVSYIGHWCN GKRHGKVGEVATWRAEKKKK EEEEEEEEEEEEEE\EEEEEEEEEE EEEEEEEEEEEEEE\EEEEEEEEEE EEEEEEEEEEEEEEKIRP
6951	37319	A	7003	3	123	
6952	37320	A	7004	2	458	
6953	37321	A	7005	239	432	CLWLFQEEEEEEEEEEED*EEE EEE/EEEEEEEEEEEEEEEEEE EEEEEEEEEEKIFLGHHRVGI
6954	37322	C	7006	7	162	
6955	37323	A	7007	39	2154	
6956	37324	A	7008	1	639	
6957	37325	A	7009	1	651	
6958	37326	B	7010	1	684	
6959	37327	A	7011	3	428	TRFQGVYLPLLWEQSF/CWKSPI ALGYTRGHFSALVAMENDGYG NRGAGANLNTDDVTITFLPV DSERKLLHVHFLSAQELGNEEQ QEKLLREWLDCCVTEGGVLVA MQKSSRRRNHPLVTQMVEKW LDRYRQIRPCTSFL
6960	37328	A	7012	2	800	

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6961	37329	A	7013	1	930	DHNSSPAMEQNW MENAFDELT EVGFRRWVITNFSKLKEHVL TQ CKEAKKLEKRLEELLTRITSLEK NINDLMELKNTSQELREAYTTE ERISEIEDQLNEIKHEDIREK/R/ VKRNEQSLQEIW DYVKRPNLH LT/GVPESDGENGTKLENTLQDI IQENFPNLARQANIQI QEIQRTP QRYSSRRATPRHIIIRFTKVEMK EKMLRAAREKGQVTHKGKPIR LTADPLAETLQARREWGP IFNIL KEKNFQHRMSYPAKLSFISVGE IKYFTDKQMLRDFVTTRPALQE LLKDALNMERNNNQNQLQKHA KL
6962	37330	A	7014	1	870	
6963	37331	A	7015	1	585	
6964	37332	A	7016	1	1032	
6965	37333	A	7017	2	770	
6966	37334	A	7018	1	2910	
6967	37335	B	7019	239	462	
6968	37336	A	7020	3	694	
6969	37337	A	7021	1	1212	
6970	37338	A	7022	1	1140	
6971	37339	A	7023	1	570	
6972	37340	A	7024	1	486	
6973	37341	A	7025	1	1476	MEVNREKQLNELEVIGSEEQNL EEEGLMIGGVA VRLVPDDIVIP GGVNATNGTEARDALRVKVA MSVTLLSGIIQYLLSALGW SYY TVDGVSQKNPRALGV TADQLH AIFTTMSDEQASFRFGF VAIYLT EPLVRGFTTAAAVHVFTSMLK YLFGVKT KRYSGIFS VVYSTVA VLQNVK NLNVCSLGVG L MVFG LLLGGKEFNERFKEKL PAPIPLE FFADHNSSPAREQKWMENEFD EWTEVSFR RWVITNSSELKEHI LTQC KEA KNLEKRLEELLTRITS LEKNINDLMELKNTAQEFHEA YTSINS/RNQTEERVSEIEDQLN EI*CKDKIRKEKKRMKRNEQSLQ EIWDCV KRP NLR LTGV PESDGE NGTKLENTLQDI IQENFHNLAR QANSQI QEIQRTPQRYSSRRATP RHIIIRFTK VEMKEKMLRAARE KGRVTHKG NPIRLIA DLSADTL QARRQWEPIFNILKENFQTRISH
6974	37342	A	7026	1	1080	

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6975	37343	A	7027	1	3501	MIVYLENPIVSAQNLKLISNFS KVSGYKIVKIDVQKSQAFLYTN NRQTESQIMSELPTIASKRKY PGIQLTRNVKDLFKENYKPLLN EIKEDTNKWKNIPCS WIGRINIV KMAILPKVIYRFNAIPIKLPMTS FTELEKTTLKFIWNQKGARIAK TILSKKNKVGGITLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEASEITPPYIYNHLIFDKPDKN KKWGKDLSFNKWCWENWLAI CRKLKLDPLTS
6976	37344	A	7028	164	714	IGVRHЛИQEPSWNLAGAPE QIFQRKEQAAIFAILQPLLVISRQ TGSGVDPQQTPADLQK/SGSDS REQNKTENEFDDELTEIGCRRWV ITNSSELKEHVVTQCKEAKNLE KMLQELLTRITSLEKNINDLME LKNTAQELREAYTIINSQTDQA EERISEIEDQLNEIKGEDNIREKT VKRNE
6977	37345	B	7029	1	579	
6978	37346	A	7030	1	927	
6979	37347	A	7031	1	1362	MAAGRHPVGADRHLIQUESTG WHLAGAPLGWSFQRKEQTAIF AVLQPLLVIPRQTGYGVDLQQ MPADLQQRFLLTVRRKTNKQKG IVSTSTKRTSSEGHQHQRRKVD KFTEMGRNQHKKAENSKNQN ASSP\PKDHNSLPAREQNWTEN EFDELTEIDFRRWVITNSSQTKG SMF*P*CKEAKNLEKRLDELLT RITSLEKNINDPMELKNTAREL REANKSINS*IDQGRKERVISEIE DQLNEIKREDKIREKRMQRNK QTLQEIWDDYVKRPNLHIGVPE SDRENGTKLENTLQDI\QENFP NLARQANIQIQEIQRTPQRYSSR RATPRHIIVRFTKVEMKEMLR AARKKGQVTHKGKSIRLSADFS AETLQARREWGPIFNILKEKNF QPKISYPAKLSFISEEEITSFTDK QTLRDFVTTTPALQELLKEAVN MERKNQYQPLQKHTKM
6980	37348	A	7032	1	598	
6981	37349	A	7033	3	787	
6982	37350	A	7034	61	284	RLEPQGPLRAGSSPAGK/IGGT LERRGMPWP GP/HSEGGLSPLL LGASLAAAPHGEMPSVRVHPV RPSSRDCSSRV
6983	37351	B	7035	743	1683	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6984	37352	A	7036	1	1137	
6985	37353	A	7037	1	663	
6986	37354	A	7038	1	197	
6987	37355	A	7039	1	291	
6988	37356	A	7040	3	342	
6989	37357	A	7041	1	439	
6990	37358	A	7042	3	253	
6991	37359	C	7043	1	210	
6992	37360	A	7044	1	165	
6993	37361	A	7045	1	346	
6994	37362	A	7046	1	389	
6995	37363	C	7047	1	464	
6996	37364	A	7048	1	1806	
6997	37365	A	7049	491	1640	
6998	37366	A	7051	188	383	
6999	37367	A	7052	1	759	
7000	37368	A	7053	1	1683	
7001	37369	A	7054	1	972	
7002	37370	A	7055	1	429	
7003	37371	A	7056	3	753	DQTFWGLLETG/S/ELMLIPGDP KCHCGPPVKVGAYGGQEIKGV LAQVQITVGPVGTRTHPVVISP VPECIIIGIDILSSWQNPHGTGSLTG RVRVIMVEKAKWKPLELPLPR KIVNQKQYCIPGGIAEISATIKD LKDTGVMIPPTSPFNSPIWPVQ KTDGSWRITVDYQVVTPIAAA VPDVVSLLEQINTSPGTWQHIT HLDVLLWRIYQVTQKAASF EW GPEQEKA LQQVQA VQA\ LCH LGHMTQQIQWCL
7004	37372	A	7057	2	430	
7005	37373	A	7058	1	1515	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, !=possible nucleotide insertion)
7006	37374	A	7059	1	1523	MGEERRWRPSSNGKHGAFEL DKGWLWVLEGKGVIGARRSW RAHSALIKICVQQIKDSLPGKM SKGLLQQQQPKHLLHDLYKA MSTRWGVQKARLNCTALPPTG CVTLDPSFLTEPQFPRQLSEDLL LTREALEKEVQLRRQLQKEEE LLYRVLGANASPAFPLAPVTPT EVEKERELELRDRLDEQQRVLE GKNEEALQDPRLVDPLTSCTVH FEKPQMLNARLWKHAGREAV ACKVRGSELPKTMGTYPLHQH DLDVRHGVKGDHFGALRFDCP AGFWTCMGPLAPSFWPISPIWN GPPLDISGYPATSTQKSTMCLRI IDTRLHPESRLKQQSNFALNAR EKALQQVQAAVQAALPLGPYD PADPMVLEVSLADRDAVWSL WQAPIGESQRPLGFWGKALPS SADNNNSPLERQLLARYWALVE TEYLTMGHQVTM*P/ELPIMNW VLSDPSSHKKVVYAWQHSIIKW K\DRAGLAGTSKLHEEVAQ MPIVSTPATLPSCRIL
7007	37375	A	7060	1	2190	
7008	37376	A	7061	286	430	
7009	37377	A	7062	205	514	LWSLCAPVLQVPCRAAFPVFT RRHAPSAGRGRFTRSYVSAGSW TETQQGLWGSLLTKLGADGLLL GISKHLVEFLQIFQISGCWGHYC YLQILFFALNSISPSYHVLLFNV QFGFIFNFMVLCVP*AGTHIAPC KSSSRTRGMSSCENWKCSKA RHLQYWSTKTPQSLSFFCCGIH FVTAVCQP
7010	37378	A	7063	1	487	
7011	37379	A	7064	1	1212	
7012	37380	A	7066	140	453	
7013	37381	A	7067	1	3341	MGKKQNRKTGN SKNQSASPPP KERSSSPATEQSWMENDFDEL EEGFRLSNYSEL PEDIQT KGKE VENFEKNLEECITRITNKRNFKP TKIKRDKEGHYIMVKGSIQQEE LTILNIYAPTGA PRFI KQVLSDR QRDLD FHTLIMGD FNTPLSTLD RSTRQKV NKDTQ ELSALHQA DLIDIYRTLHSKSTEYRFFSAPH HTYSKIDHLLGSKAFLSKCKRT EIITNYLSDHSAIKLELRJKNLTQ NRSTTWKLNN
7014	37382	B	7068	1	1785	

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7015	37383	A	7069	1	1141	MVTWNFIQERNNSGMDQCDD GGGKILDPVYILTVELTGFAGK WKMFSVKDQSVDLGFAGYPL ITQTARKGAGKIPTWASLRQYQ KGLGSKYQLRRALRPDCALGN GQGVRYCNSLDEEKRELKLFS SQRKRENLRGNVRFPVTMT GAICEQCGGQINGGDIAVFASR AGHGVCWHPPCFVCTVCNELL VDLIYFYQDGKIYCGRHAECL KPRCACDEIIFADECTEAEGR HWHMKHFCFCFECETVLGGQRY IMKEGRPYCCHCFESLYAEYCD TCAQHIGHAGSFIKEC/SRLLP GEAEI/SRRATVICLVRVSVRPE AASKSPNMRRKRKRGACPLS SVGVPVPSVP*NTQRT*RPQSRP LGAPWNWPCLMQ
7016	37384	A	7070	1	2388	VHQYYSLPPEEKVPYVNNSPGEK LRIKQLLHQLPPHDNEVRYCNS LDEEEKRELKLFSSQRKRENLG RGNVRPFPTVMTGAICEQCGG QINGGDIAVFASRAGHGVCWH PPCFVCTVCNELLVDLIYFYQD GKIYCGRHAECLKPRCAACD EIIIFADECTEAEGRHWHMKHFC CFECETVLGGQRYIMKEGRPYC CHCFESLYAEYCDTCAQHIGID QQQMTYDQQHWHATETCFCC AHCKKSLLGRPFLPKQGQIFCS RACSAGEDPNGSDSSDAFQNA \\GPRSPGAVPKLARTRARR\\GAH AEPAQPAASEF*PAVSRRRPPV ADGHAQPVQPDTQPQPGPHLE EPGRALPLWEQDGAEPDPEPSA APVRQCNIRTSYSPGGQGAGAQ PEMWGKHFSNPKRSSSLAMTG HAGSFIKECREDDYYPGRLRSQE SYSDMSSQSSETRGSIQVPKYE EEEEEEGGLSTQQCRTCPISSL KYTEDMTPTEQTPRGSMESLAL SNATGLSADGGAKRQEHLRSFS MPDLSKDSGMNVSEKLSNMGT LNSSMQFRSAESVRSLLSAQGY QEMEGNLHQLSNPIGYRDLQSH GRMHQSFDGGMAGSKLPGQ EGVRIQPMSERTRRRATSRRDN RRFRPHRSRRSRRSRSDNALHL ASEREAIISRLKDRPPLRAREDY DQFMRQRSFQESMGHGSRRDL
7017	37385	A	7071	1	807	

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7018	37386	A	7072	500	2666	YCLRLAQVGIFPAPSRAWPVDL DPESRLCCFPSSLGSLANPTAVG LEEDREQDVGTSSRGGAWDTRI KRELEKMSEKCGGQINGGDIAV FASRAGHGVCWHPPCFVCTVC NELLVDLIFYQDGKIYCGRHH AECLKPRCAACDEIIFAECTEA EGRHWHMKHFCFCFECETVLGG QRYIMKEGRPYCCHCFESLYAE YCDTCAQHIGEAIFGSQLGPSV MRSPLFWGVGIAAAALDAVLIR AHQRTQGCHHELSALLAFKG SEKKEEEEGGQVSRSSSLKVQA QELSATEDKGHISPFFWEAVYH YASGECRGPGPYSHSLRLYSQ QALPTGRGPSSSQFPFCQFYCC YKKSLLCDCLSCKSPAlekAMR GIDQQQMPTYDGQHWATETCF CCAHCCKSLLGRPFLPKQQIF CSRACSAGEDPNGSDSSDSAFQ NA\GPRSPGAVPKLARTRARR\G AHAEPAPPAASEF*PAVSRRRP PVTADGHAQPVQPDTPQPGP HLEEPGRALPLWEQDGAEPDPE PSAAP\RQCNIRTYSPGGQGAG AQPEMWGKHFNSNPKRSSLAM TGHAGSFIKECREDYYPGRLRS QESYSDMSSQSFSETRGSIQVPK YEEEEEEEGGLSTQQCRTRHPIS SLKYTEDMTPTEQTPRGSMESL ALSNATGTTCSVTFQAKETCR YQDAQFGKVKARVKERQLWS
7019	37387	A	7073	1	2239	
7020	37388	A	7074	1	282	
7021	37389	A	7075	2	430	GFFAQDPKSLALRTHCQTSGW/ SLTEQDPYNNVIRTTIEALAATL GGTQSLHTNVFDEALGLPTDFS ARIARNTQIIIQESELCRTVDPL AGSYGGAIQQIDVAGGLAKRI EAGLSKRMIEEASAREQALIDQ GKRVIVGVT

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7022	37390	A	7076	1	1561	MVTLILYFRFYRLNGDTLRRIQI HLLDKYRKVPPEPVHADIPVGA RRFSRPCSWFLRITKRGYRRTV HAMAGQKEKLLGAGMSDYLAK KPIEEERLHNLLRYKPGSGISS RVVTPEVNEIVVNPATLDWQ LALRQAAGKTDLARDMLQML LDFLPEVRNKVEEQLVGENPEG LVLDLHKLGSCGYSGVPRMK NLCQLIEQQLRSGTKEDLEPEL LELLDEMDNVAREASKILGPDK THLRRIRRVDLATDPRPARDRR KACLHACVLRTPPLGAARAIQ QIDEAGGMAKAIEAGLPKRMIE EASAREQSLIDQGKRVIVGVNK YKLDHEDETVDVLEIDNVVMVRN EQIASLERIRATRDDAAVTAAL NALTHAAQHNENLLAAAVNA ARVRATLGEISDALEVAFDRYL VPSQCVTGVIAQSYHQSEKSAS EFDAIVAQTTEQFLADNGRRPRI LIAKMGQDGHDRGAKVIASAY SDLGFVDLSPMFSTPEEIARLA VENDVHVVGASSLAAGRSR
7023	37391	A	7077	1	354	
7024	37392	A	7078	1	1116	
7025	37393	A	7079	1	450	
7026	37394	A	7080	1	252	
7027	37395	A	7081	1	242	
7028	37396	A	7082	1	242	
7029	37397	A	7083	1	9228	
7030	37398	A	7084	3	664	
7031	37399	A	7085	3	718	
7032	37400	A	7086	380	1038	WTRWRASAADNLAHGRWGEG KLVVTTGASGAPDRQAARCAA SAKISWYRSKGSKHPLTPKEVE KTGWGLKIPG/MGQQQLPERV KEAARILELDGLLKRRPRELSG GQRQRVAMARAIVRDPAVF DEPLSNLDAKLRVQMRLELQQ LHRRDQVEAMTLAQRVMVMN GGVAEQIGTPVEVDGDDTLEIL GADNLADAGRAEAGGDWRI RSARRSSTCAH

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7033	37401	A	7087	380	920	WTRWRASAADNLAHGRWGEQ KLVTTGASGAPDRQAARCGC IWRKISWYRSKGSKHPLTPKEV EKTGWGLKIPG/MGQQQLPERV KEAARILEDGLLKRRPRELSG GQRQRVAMARAIVRDPAVFLF DEPLSNLDAKLRVQMRLELQQ LHRRDQVEAMTLAQRMVMVN GGVAEQIGTPVE
7034	37402	A	7088	1	258	
7035	37403	A	7089	3	208	
7036	37404	A	7090	34	125	
7037	37405	A	7091	1	393	
7038	37406	A	7092	1	690	MVAPVYIRDQYSALITNIGKGD HTTFVKPNIPATGEFKGVGFLE APRGMLSHWMVIKDGIIISNYQ AVVPSTWNSGPRNFNDDVGPY EQSLVGTPVADPNKPLEVVRTI HSFDPCMAWVGNILLTDEAIGV RIVEALEQRYILPDYVEILDGGT AGMELLGDMANRDHLIIADAIV SKKNAPGTMMILRDEEVPALFT NKISPHQLGLADVLSDLRFT\GE FPKKLPWVQA
7039	37407	A	7093	82	224	
7040	37408	A	7094	1	239	
7041	37409	A	7095	1	1062	
7042	37410	A	7096	1	221	
7043	37411	A	7097	1	1067	
7044	37412	A	7098	1	1545	
7045	37413	A	7099	1	2820	
7046	37414	A	7100	1	1223	
7047	37415	A	7101	1	3087	
7048	37416	A	7102	1	1182	MDKFLDTYTLPRLNQEEVESLN RPITGSEIVAIINSLPTKSPGP GFTAEFYQRYKEELVPFLLKLF QSIEKEGILPNSFYEASIILIPKG RDTTKKENFRPISLMNIADAKILY KILAKRIQQHIKKLIHHHDQVGFI PGMQGWFNIRKSINVQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTLNKLAQNLLKLISNFNKV SGYKINVQKSQAFLYTSNRQTE SQIMSELPFTIASKRKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNIPCSWVGRINIVKMAIL PKVIYRFNAPIKLPMTFFTELE KTTLKFIWNQKRAHIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYCYQNRHIDQWNR\PSEI TPHIYNYLIF

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7049	37417	B	7103	I	1722	
7050	37418	A	7104	I	3513	
7051	37419	A	7105	I	2546	MSELPFTIATKRIKYLGQLKSD VKDLFKENYKPLLNEIREDTYK WKNTPCSWIGRINIMNMAILPK VIYGFNAILIKLPLTFFTELEKTT LKFTQSLKRAHIAKTILSKKNK AGGIMLPDFKLYYKATVTKTA CTIHNSKDLEPTEMPSNDTLK ENVAYIHHGILCSHSKGRVHIL CRDMDEAGNHHSRQTNTGTEN QTLHVLTHKWELNDENTWTQ GGEHHISGPVRTNNKNHMIISIG AEKAFDKIQQPMLKTLNQLGI DGTYLKIIRDIFDRPIANILLNGQ KREASPLKTGTRQGCPLPPLL NIVLEILARAIRQEKEIKGIGL KEEVKLSLFADDMIIYLENPIVS AQNLKKLISNFNSKVSGYKINVQ KSQAFLYTNNRQTESQILSELPF TIASKRIKYLGQLTRDVKDLFK ENYKPLLNEIKEDTNWKWNIPC LSIGKINIMKMAILPKVIYRFNAI PIKLPMTFFTELEKTTLKFIWNQ KRARIAKTILSQKNKDGGITLPD FKLYYKATVTKTAWYQQYQNR DIDQWRNTERPSEIIPHVVYNHLIF DKPDKNKKWGKDSLWFKWCW ENWLAICGKLKLDPLTPYTKI NSRWIKDLNVRPKTIKTLEENL GNTIQDIGMGKDFMSKIPKAM ATKAKIDKWNLIELKSFCATAKE TTISVNRQPTWEKIFAICLSDK GLISIYKELKQRHKKKTNPIK
7052	37420	A	7106	I	2575	
7053	37421	A	7107	I	875	
7054	37422	B	7108	I	3421	
7055	37423	A	7109	I	3790	MELTKARELREECRSLRSRRN QLEERVSAMEDEMNEMKREG KFREKRIKRNEQSLQEIWVDYVK RPNLRLIGVPESDAENGTKLEN TLQDIQEDFPNLARQANVQIQE IQRTPQRYSSRRATPRHIVRFT KVEMKQKMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSSHTLIMGDFNPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTE
7056	37424	A	7110	I34	307	

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7057	37425	A	7111	2	173	RPPRSEVPGPLSPGRPPAAGLRG R*PAGVRGLREPRAFSGVRVER RSLFIGKDMFDS
7058	37426	A	7112	888	1016	VPGEIHALHSADRQHENA*NAR TRWQHAQSGRSPLFLALSRE
7059	37427	A	7113	573	872	SPSLLPDPAHVGC*SRSRKRPD RIRRFDSR*NGLFYCRKTS*PFH *G*MCQ*YQTDPRSNAQCHPV LRLWWPGDEYDFLCRSGSVGS VRQSGRASGL
7060	37428	A	7114	1	654	
7061	37429	A	7115	71	2776	
7062	37430	A	7116	31	1016	TVLPERPYNRKSSRRNRCGNGP PARSFCPSSGRSRRRSSPATGP/ HTAIASALPRIAFGKISDSSTQH TGPQDMAKAAT*NSLRGSMRY SFKPMVGRWIKSCLRPVWC
7063	37431	A	7117	279	1243	SVLLMCAADYLPRPPDVQTCN AVRVWLRYHRSNHGTPPDFSP GPVSAWYYAH/QPKIPIWSQ/QR GFTD/R*TRHKCPQRFAVPDK*I SSPD*AMNYYRKIHRPAPRHTA PTQKARLMADKSSLRHRHNSA NKRRSASPSSAGYP/GKRIRAQ NLIPASTTNQQLRIRQRRISSQAR **TKRMARKGSISPISA VSNSLN SS*ASIIIVSSCIRCSALSPLSN NIHK S*TAGPWGASSRKTNIQLSRQRI FPAWQSPCSRRTVKSSRQCAVT AAISSLVAFRNAAFNPEGISVAS SNSLRGSMRYSFKPMVGRWIKS CLRPVWCIRPK
7064	37432	B	7118	1	726	
7065	37433	A	7119	1	138	
7066	37434	A	7120	56	133	
7067	37435	B	7121	1	1524	
7068	37436	B	7122	1	1521	
7069	37437	A	7123	1	1494	
7070	37438	B	7124	4	1698	

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7071	37439	A	7125	1	1725	MELTKARELREECRSLRSRCD QLEERPNLRLIGVPESDGENGT KLENTLQDIIQENFPNLAKQVN VQIQEIQRTPQRYSLRRATPRHII VRFTKVEMKEKMLRAAREKGR VTLKGKPIRLTADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEGEIKSFTDKQMLRDFV TTRPALQELLKEALNMERNNNRS WFFEKINKIDRPLARVIKKRE KNQIDAICNDKEDITNPTEIQTI IREYYKHLYPNKLENLEEMDTF LDTYTFPRLNQEEVESLNTSITG SEIVAIISIAYQPKKVQDQMDPQ PNSTRVLEVLRALARQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLISNFSKVSGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRKCLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMFTFTDLEKTTL NFIWNQKRARITKSILSQKNKA GGITLPDFKLYYTATVTKTAW YWYQN\RWYWYQNRDIDQWN RTEPSEITPHVYNYLIF
7072	37440	A	7126	1	2478	

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7073	37441	A	7127	1	1746	METQKTLQKINESRSWFFEKIN KIDRPLARLIKKREKNQIDTIK NDKGDITTDPTEIQTTIREYYKH LYANKLENLEEMDKFLDTYTL PRLNQEEAESLNKPITGPEJAIJ NSLPTKKIPGPDGFTADEFYQRY KEELQHIKKLIHHQVGFIQGM QGWFNHKLINVIQYINRTKDK NHMIISIDAEKASDKIQQPFMLK TLNLKGIDGTYLKIIRAIYDKPT ANHILNGQKLEAFPLKTGTRQG CLLSPLLNFNIVLEVLAIRQEK EKKCIRLGKEEVKLSLFADDMI VYLENPIVSAQNLLKLISNFSKV SGYKINVQKSQAFLYTNNRQIE SQIMSELPFTIASKRQYLGQLT RDVKDLFKENYKPLLNEIKEDT NKWKNIPCSWIGRINIMKMAM LPKVIYRFDAIPIKLPMFFTELE KTTLKFIWNQKRARIAKSILSQ KNKAGGITLPDFKLYYKAIVTK TAWYWYQKRDVDQWNRIEPS ETIPHICNHLIFDKPDKNKQWG KDSLFNKWCWEIWAIGRK LDPFLTPYTKINSRWIKDFNIRP KTIKTLEESLGIVQDISMGKKFTS
7074	37442	A	7128	1	1908	
7075	37443	A	7129	1	1494	
7076	37444	A	7130	2	1562	
7077	37445	B	7131	1	1569	
7078	37446	A	7132	1	1593	
7079	37447	A	7133	1	1520	
7080	37448	B	7134	1	2796	

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7081	37449	A	7135	101	1686	SIAYQPKRVQDQMDSQPNSR ANILNGQKLEAFPLK\TGTRQF SKENFE\PLSPLLNFNIVLEVLR IRQEKEIKGIGLGEELKLSLFA DDMIVYLENPIVSAQNLKLISN FSKVSGYKINVQKSQAFLYTNN RQTESQIMSELPFTIASKRICKYL GIQLTRDVKDLFKQNYKPRLKE IKEDTNWKWNIPCSWVERIYIV KMAILPKVIYRFSAIPIKLPMTFF TELEKTTLKFIFIWNQKRARIAKSI LSQKNKAGGITLPDFKLYYKDT VTKTAWYWYQNRDIDQWNRT EPSEIMPHIYNYLIFDKPEKNQ WGKDSLNFNKWCWENWLALCR KLKLNPFLETPYTKINSRWIKDL NVRPQTIKTLEENLGITIQDGM GKDFRSKTPKAMATKAKSDK WDLILKLSFCTAKETTIRMNRQ PTKWEKIFATYSSDKGLISRIYN ELKQIYKKKTNNPIKKWAKDIN RHFSKEDIYAAKRHMKKCSSSL AIRQMFIKTTMRYHLPVRMAI IKKSGNNRDMDEIGNHPSQ
7082	37450	A	7136	1364	3024	TEPKTKTT*LSQ*MQRPLTKF NNASC*KLSIN/IVLEVLRARIRQ EKEIKGVQLGKEEVKLSLFADD MIVYLENPIVSAQNLNLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRICKYLGI QLTRDVKDLFKENYKPLLNER KEDTNWKWNIPCSWVERINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLKFIFIWNQKRARIAKSI LSQKNKAGGITLPDFKLYYKAT VTKTAWYSYQNRDIDQWNRT PSEILPRIYNYLIFDKPEKNQ WGKDSLNFNKWCWENWLAICRKL KLDPFLKPYTKIKSGWIKDLMV RPTKTIKTLLEENLGITIQDGMGK DFMSKTPKAMATKAKDKWDL IKLKSFCTAKETTIRVNQPTER EKIFATYSSDKGLISRIYKELQI YKKRTNNLIKKWVKDMNRHFS KEDVYAAKKHMKKCSSSLAIR EMQIKTTMRYHLPVRMAI SGNNRITIVLLPGSLIVRSFHVT NAILLHPGLTLFSPSAGRRDIPR VAFSYLAFAQPSHNTPVN
7083	37451	A	7137	1	2274	
7084	37452	A	7138	2	2348	

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7085	37453	A	7139	1	2202	
7086	37454	A	7140	1	2823	
7087	37455	A	7141	1052	3831	RHKKPDKSMNPGAGFFERINK IDRPLARLTKRKREKNQIHAIK NDKGDITTDPTEIQTTIREYYKH LYANKLENLEEMDKFLDTYTL PRLNQEEIESLNPITGAEIVAI NSLPTKKSPGPDGFTADEFYQRY KEELVPFLLKLFQSIEKEGLPNS FYEAASINLIPKPGRDTTKKENFR PISLMNIDAKILSKILANRIQQHI KKLIHHDQVGFIPGMQGWFNIC KSINVIQHINRTKDKNHMIISID
7088	37456	A	7142	1	327	
7089	37457	A	7143	1	446	
7090	37458	A	7144	382	1485	
7091	37459	A	7145	1	378	
7092	37460	A	7146	2	217	
7093	37461	A	7147	1	483	
7094	37462	A	7148	1	1260	
7095	37463	A	7149	1	891	
7096	37464	A	7150	5	182	RQGLLVSPRLVQKGEIRTPGLK RSSRLDLQKC*DYRHEPSSLAS EAPSVWVLLPPWRQS
7097	37465	A	7151	1	1914	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7098	37466	A	7152	1	2200	MKLTTTHRENMALTNGFCHHIA AQQNLYTNLAAARIKQRLTEQ FELMLRQAQIDFAGKAHSLTEA QANTTQVSAERDRLFKNYQRY LKGSQAAVNPFSERDIDDARQN FLAQDALAQIQSQLDSL VNGEQ SQIVSLKAQLAEAKYNLEQTIV RAPSNGYVTQVLIRPGTYAASL PLRPVMVFIPDQKRQIVAQFRQ NSLLRLAPGDDAEVVFNALPG KVFSGKLAIAISPAPVPGAYQST GTLQTLNTAPGSDGVIAIELDE HTDLSALPDGIYAQNPKNLKIV ELKAPQLPRSLLDAQIALAVIN TTYASQIGLTPAKDGIFVEDKES PYVNLLTREDNKDAENVKKF VQAYQSDEIPCRTRSKHCTPAE SGACKTESAARHAGPNLYQCR RIRSANRSAISVKGWRTPCIPDS LPAVEWLTYGSGYLAGMKG TPLVEYTRDRLLHRETLRSFGRY ELTTAYTPAGQLQSQHLSLLS DRDYTWNDNGELIRISSPRQTR SYSYSTGRLTVHTTAANLDI RIPYATDPAGNRLPDPELHPDST LSMWPDNRIARDDNLYRYDR HGRLTEKTDLIPEGVIRTDDERT HRYHYDSQHRLVHYTRTQYEE PLVESRYLYDPLG\RRVAKRVW RRERDTLGWMSLSRKPVWTWY GWDGDRLLTIQNDRTRIQTQYQ PGSFTPLIRVETATGELAKTQRR
7099	37467	A	7153	719	1575	
7100	37468	A	7154	1	239	
7101	37469	A	7155	1	735	FNDDSPPEARKITRRWRIGEAAD LVGVSSQAIRDAEKAGR\LPHP D\MEIRGRVEQRVGYTIEQINH MRDVFGTRLRAEDVFPVIGV AAHKELNNNDYTSKKVMKPLIT SNTVDEIERANVLKMNGKWy LFTDSRGSKMTIDGINSNDIM LGYVSNSLTGPYKPLNKTGLVL QMALDPNDVTFTYSHFAVPQT KGNNVVITSYMTNRGFFEDKK ATFAPSFLMNIIKGNKTSVVKNS ILEQQQLT
7102	37470	A	7156	1	4368	
7103	37471	A	7157	1	1452	
7104	37472	A	7158	1	516	
7105	37473	A	7159	1	743	

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7106	37474	A	7160	3	1743	DSPE\ARKITRRWRIGEAADLV GVSSQAIRDAEKAGR\PHPDME IRGRVEQRVGYTIEQINHMRDV FGTRLRRAEDVFPPVIGVAAHK GNDPQGTASMYHGWPDLHIH AEDTLLPFYLGEKDDVTYAIKP TCWPGLDIIPSC\ALHRIETLM GKFDEAQPNLIGITINVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFPDVRIILT KYSNSNGSQSPWMEEQIRDW GSMVLKNVVRETDEVGKGQIR MRTVFEQAIQRSSTDTSLS AAPMVDSLIAVGVMARGNAI TLPVCGRDVKFTLEVLRGDSVE KTSRVWSGNERDQELLTEDAL DDLIPSFLTGQQTPAFGRRVSG VIEIADGSRRRKAALTESDYR VLVGE\LDDEQMAALSLRGNDY RPTSAYERGQRYASRLQNEFAG KYFLRWLMRKIFHIITRCINTAK LPKSVALFSHPGELSARSGDA LQKAFTDKEELLKQQASNHL EQQKAGVIFEAAEVITLLT SVLKTSSASRTSLSSRHQFAPGATVLY KGDKMVLNLDRSRVPTECIEKI EAILKELEKPA
7107	37475	A	7161	1	438	
7108	37476	A	7162	1	3216	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPEAR\KITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPG FGDFADFGTTIKQDFRLLGQTS VDRLQLSQGQAVKG\NQLPV SLVKRKTTLAPNTQTASPRALA DSLMQLARQVSRL/VKRAPTC WPGLDIIPSC\ALPRIETELMGK FDEGKLPTDPHMLRLAIETVA HDYDVIVIDSAPNLG
7109	37477	A	7163	1	513	

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7110	37478	A	7164	1	2027	MRGHREKAAACKPRTRASEGT TPASTFILDQPPNCNYTSGDNH TLRDPHYVEDKGHKYLVFEAN TGTCNGYQGEESLFNKAYYGG GTNFFRKESQKLQQSAKKRDA ELANGALGIELNNNDYTLKKVM KPLITSNTVTEIERNVFKMN GKWLFTDSRGSKMTIDGINSN DIYMLGYVSNSLTGPYKPLNKT GLVLQMGLDPNDVTFTYSHFA VPQAKGILCEEDNYTAGDNHM MRAPHCEEDRAHKFVVFDANA GTESGHQGESSLFNACGGGGT FFFSKESQKLQQSAKKRDCINA GHEMTKAIAAQFNDDSPEARKE ITRRWRIGEAADLGVVSSQAIR DAEKAGRLLPHPDMEIRGRVEQ RVGYTIEQINHMRDVFGTRLKR AEDVFPPVIGVAAHKGKVYKT SVSVHLAQDLALKGSLLPKND FLFKLGLEGHPLGKIHSPPPTGA DVARGSSGLPKSELFPERNTQ ELQQDSEEGPLALQVLQSNLM DFADFGTTIKQDFRLLGQTSD RLLQLSQGQAVKGQNLLPVSL VKRKTTLAPNTQTASPRALADS LMQLARQVSRLQESQNNNDGIC EIHVAKYVEIFGLTSAEASKDIR QALKSFAGKLVVFYRPE/VGCR R*KRL*IFSLVYQTCAQSIIQRAL QCTYQPISHSLLYRVTEPVYAV
7111	37479	A	7165	1	750	
7112	37480	A	7166	1	723	
7113	37481	B	7167	1	1156	
7114	37482	A	7168	1	999	
7115	37483	A	7169	1	529	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPEARKEITRRWRIG EAADLGVVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGAGDEKGYESFPWF IKTCA\HPSRGLYSVHINPYLIPS LSGYRTGLRSFGLVKQKKSPIR MPCVYTNPVCVSIVSRMAQASSL
7116	37484	A	7170	1	1038	
7117	37485	A	7171	1	1098	

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7118	37486	A	7172	1	838	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPPEARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRRAEDVFPPVI GVAAHKGKVYKTSVSVHQAQ DLALKGLRVLLVEGNDPQGTE TMYHGWPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPGLDI IPSCALHRIETLMGKFDEGSL PTDPHLMYYYQAPCMKSNNAL IVILGTVTLDAVGIGLVMPV\CR ASCGISSIPTASPVTMACC
7119	37487	B	7173	1	1212	
7120	37488	A	7174	1	738	
7121	37489	A	7175	1	654	
7122	37490	A	7176	1	448	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPPEARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRRAEDVFPPVI GVAAHK\AGNLSCQLH**IGQR AGRGGRLIGRQGGFSFHQ
7123	37491	B	7177	1	753	
7124	37492	A	7178	1	345	
7125	37493	A	7179	1	516	
7126	37494	A	7180	1	1989	
7127	37495	B	7181	1	1191	
7128	37496	A	7182	1	669	
7129	37497	A	7183	1	574	
7130	37498	A	7184	1	934	
7131	37499	A	7185	1	1281	
7132	37500	A	7186	1	324	
7133	37501	A	7187	3	817	
7134	37502	A	7188	1	587	
7135	37503	B	7189	1	610	
7136	37504	A	7190	1	882	
7137	37505	A	7191	1	1077	
7138	37506	A	7192	1	418	
7139	37507	A	7193	1	840	
7140	37508	A	7194	1	337	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPPEARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRN\VFGSGLRRPTAELKCA SQT
7141	37509	A	7195	1	1142	
7142	37510	A	7196	1	1080	
7143	37511	A	7197	1	1170	
7144	37512	B	7198	1	1296	
7145	37513	A	7199	1	1179	

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7146	37514	A	7200	1	507	
7147	37515	A	7201	1	411	
7148	37516	A	7202	1	793	
7149	37517	B	7203	366	1502	
7150	37518	A	7204	1	1107	
7151	37519	A	7205	1	2388	
7152	37520	B	7206	1	2260	
7153	37521	A	7207	1	1067	
7154	37522	B	7208	563	1467	
7155	37523	B	7209	1	1272	
7156	37524	A	7210	1	1722	
7157	37525	B	7211	1	1917	
7158	37526	A	7212	1	2679	
7159	37527	A	7213	1	1207	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPPEARKITRRWRIG EAADLVLGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRRAEDVFPPG FGDFA\HFGNHHQNRIALLGQ TSVDRLQLSQGQAVKGQNL PVSLVKRKTLAPNTQTASPRA LADSLMQLARQVSRLQESGQAIR DAEKAGRLLPHPDMEIRGRVEQ RVGYTIEQINHMRDVFGLRRA AEDVFPPIVGVAHKGGVYKT SVSVHLAQDLALKGLRVLLVE AARGLKKRGLAGTAQGPGEPG EAPKGKKGKTEPGHERKGNWT GKGPQIREGTSPNPPREHGGEC APPPPSAKRKQPKAQKRKANSN AHPRQPKPKKRPKRQTNRTN TRSGKRQNKQPEEPK
7160	37528	A	7214	1	2757	
7161	37529	A	7215	1	2984	

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7162	37530	A	7216	1	2387	MKLMETLNQ CINAGHE MTKAI AIAQFNDD SPEAR KITRRWRIG EAADL VGVS QAIR DAEKAGR LPHPDMEIRGRV EQR VGYTIEQI NHMRD VFGTR LRR AEDVFPV I GVAAH KAKGL TALSP QTDWNR KRNS SKPLAQV QEEDSAWHPE CLQKTRQ AWCDNLKTCHTSHG SVM AETA VNHKKRKNSPR JVQ SN DLTEAAYSL RDQ KRM LY FVDQIRKS DGT LQEHDGICEIH AKYAE IFGLTS AEASKDIRQAL KSFA GKEV VFYR PEE D AGDEK GYESFPWF IKA HSPSR GLYSV HIN PYLIPFF IGLQNPLTQFRLSE TKEITNP YAM RLYE SLCQ YRK P DGSGIVSLK IDWI IERYQLP QSY QRMPDFRRFLQCINAGHEMT KAIAIAQFNDD SPEAR KITRRW RIGEAADL VGVS QAIR DAEKA GRLPHPDMEIRGRV EQR VGYTI EQINHMRD VFGTR LRR AEDVFP PVIGVA AHKG GVYK\TLISVHL AQDLALKGLPGLLR\EGNDPQG \TTSMYHG WVPDLH IHAEDTLL PFYLGEKDD VP\YAIKPTC WAG AWHFFLPCRALHRIETELMGKF DEGKLPTDPHMLRLAIETVAH DYDVIVID SAPNL GIGTINV VCA ADVLIVPTPAELFDY TSALQFFD MLRDLLKNV DLKGFEP DV FIRD KLMERRN RRTGR TEKARIWEV
7163	37531	A	7217	1	917	

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7164	37532	A	7218	1	1862	MKLMETLNHCINAGHEMTKAV AIAQFNDDSPPEARKITRRWRIG EAADLGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRLLRAEDVFPPVI GVAAHKGKVYKTSVSVHLAY DLALKGLRVLLVEGNPQGTA SMYHGWPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPGLDI IPSCLALHRIETELWGK/FDEGR SFMPGP/HHHPLGRSSQ*QVSN SLDRAAKGN*KPLCHCPCSGTT HATLRLIKEQRPYVPYAHLQQA VVDPRRGGHMVL/NVVRVTG DVKGKGQIRMRTVVEQAIDQRSS TGAWRNALSIWEPVCNEIFYRL IKPRWEIRWGKRAPVIPKHTLN TQPVEDTSLSTPAAPMVDSLIA RVGVMARGNAITLPVCGRDVK FTLEVLRGDSVEKTSRVWSGNE RDQELLTEDALDDLIPSFLTGQ QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGEVDDEQ MAALSRLGNDYRPTSAVERGQ RYASRLQNEFAGNISALADAEN ISRKIIITRCINTAKLPKSVALFS HPGEAICPVRMFRMFKLMETLN QCINAGHEMTKAIAIAQFNDD PGSEENNPALENR
7165	37533	A	7219	1	2724	
7166	37534	A	7220	1	3252	FNDDSPPEARKITRRWRIGEAD LVGVSSQAIRDAEKAGRRLPHD MEIRGRVEQRVGYTIEQINHMR DVFGTRLRRAEDVFPPFNDDSP EARKITRRWRIGEADLVGSS QAIRDAEKAGRSTATRILEIRGR VEQRVGYTIEQINHMRDVFGR LRAEDVFPPVIGVAHKGGV YKTSVSVHLAQDLALKGLRVL LVEGRSFPQTEACLLQYSSWDV SSEKPAALNKNKSEMRGDFAD FGTTIKQDFRLLGQT
7167	37535	A	7221	1	465	
7168	37536	A	7222	1	291	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7169	37537	A	7223	1	1710	MLCTKWDKLGLEKNAGKNKNAYKWYGWPANAPDEPHIEQLVGECRVMRQLKRLISRIAPS PSSVMVVGESGTAIPVVSHAEFKGGFADIGVHYLDWTSRTTEKSSTKSHKDDFGYLEFEGGANFSW GEM YGFFD WENFYNGRHN KPGSEQ RYTFKNTNR IYLGDTGF NLYLH AYGTYSANRVNFHDDM\FLA GFGFQF*PAGGW/WGSNPFFAK\RYTRSKPYYT\GDNGYV\AGWV AGYNFMLGSEKFTLTNWNEYE FDRDATYAADFLPLYDVDCQD NGNLEYDTYSQPEWKHNLFDH YLA VLYRFKDESGKEQFSGAV VKTREATPGKEIEAITRRMLDFSPRLKKLADCPSPRPVFEALCICS MLDALLLCPLDYHASCDNYS YALLDPQGFPPLPHRRRLWGPYID VDVPMLH LIQHAWAQD ALLSC LYS DLLYMS SF PYPAG TL TRL M GVTSY NHK NTLL TYC ITLM STI RFAYDGDEE IAM KYT DFL KGE LSMNIRPL HDR VIV KR KEVET K SAGGI VL TG SASAK STR GEV LA VGN GRILE NGEV KPL DV KIG DI VFFNDGYRGEI
7170	37538	A	7224	678	1588	RTQHKASLHGRASAFCPPRLFA PQAPRLFDH RGFLTFASANFAA VAFCPPRLFPPTGAAAVCPLPLF APPRFLPPP PRLFRCHGFFPPC LGFLTSAAFLPPP RL FALRRRG FLPFAAAA AFFPTRLFAPPPTQL FAPSPPWLFAAAAFCPPWLSAP TPPRLFVPA AAAFCCRDFLPPSP PLFRHRDFLPPP PRIFVPA AA AL RAGAADSAAGSTGVLGQDLWS RCVVGTGMEAPGSRGGGGLR EDIPLPPEF PSGPALSSCR*GNRR PEGEMTCQEPLLCSWIP*VKE FETNP DNIVRPH

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7171	37539	A	7225	1	1627	MTKQLELPQSPGEVPGSDYPLL IACAYIGFLTGGGFSGSMPPLL AATPGNPVEHIAGLIPVGDTLFS GFNIFITVALIVVMPFITRMMMP KPSDVVSIDPKLLMEEADFQKQ LPKDAPPSERLEESRLTLIIGAL GIAYLAMYFSEHGFNITINTVNL MFMIAGLLLHKTPMAYMRAIS AAARSTAGILVQFPFYAGIQLM MEHSVTGIEAAMLDLLQHLG VNVASLLGDGQQRSEVEMLY LFFVGNRKATPLPYQSQPDDSC DWYRLRHEEAMTPDAVVRLAE AAYEKYGFNDFKLKGGVLAGE EEAESIVALAQRFPQARITLDPN GA\WSLNEAIKIGKYLKGSLAY AEDPCGAEQGFSGREVMAEFR RATGLPTATNMIATNWREMGH AVIAQ\SVIDIPLADPHFWTMQG SVRVAQMCHEGLTWGSHSNN HFDISLAMFTHVGAAAPGNPTA IDTHWIWQECDRLTNQPLEIK KGKIAVPDAPGLGVELDWEQV QKAHEAYKRLPGGARNDAGP MQYLIPGWTFDRKRPVGRH
7172	37540	A	7226	3	655	
7173	37541	A	7227	1	633	
7174	37542	A	7228	1	630	
7175	37543	A	7229	362	1491	PTLSVIHESMRFFIRHQOPENLTL VVLSRNLPQLALPICVFVINCW KLAWSNWHLPISTGCAVTKDG RWSPEFTITGQA/WDLPVVGYR NGVAQPLRLWQATHAHHPFDLT KFNDGDFLRAEQQQGINAEKLT VLYPNDNHTAGKKLRLMQQYF QCACSVADILRRHLAGRKLH ELADYEVIQLNDTHPTIAPELL RVLIDEHQMSWDDAWAITSKT FAYTNHTLMPEALERWDVKLV KGPLPRHMQIINEINTRFKTL QDAEHRPLKMRGCLLCQCCTL FQGKHRRFTGAGGNRQNNVIE HLVAASRYRFTTASRRPLFTAG FTLLTAFLFHSNFAEGVNSLMF MKNLTISGGFLLAITGPGAYSI DRLLNKKW
7176	37544	A	7230	1	660	

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7177	37545	A	7231	545	1322	KHAELGQATHAHPFILTKFNP GYFL\RRQTTTRGINAEKLAKIFF \PKANHFAGKKLRLMQQYFQC ACSVADILR\RHHLAGRKLHEL ADYEVIQLND\THPTIAIPELLRV LIDEHQMSWDDAWAITSKTFA YTNTHTLMPEALERWDVKLVKG LLPRHMQIINEINTRFKTLVEKT WPGDEKVWAKLAVVHDKQVH MANLCVVGGFAVNGVAALHS DLVVKDLFPEYHQLWPNKFHN VTNGITPRRWIKQCNPALAALL
7178	37546	A	7232	641	874	KYPTPGDRLRMFITGLSERL*EI TSLLKRSITGDKYSRPLTANSV TSVTHFSFGRVALKSLSVRAV SLDLNRCFK
7179	37547	A	7233	1	693	
7180	37548	A	7234	980	1305	TWLRICSRHSKSLILTSI/HVLH SDQGWQYRMRRYQNLKEHGI KQSMSRKGNCLDNAVVECFG TLKSECFYLDEFNSNISELKDAVT EYIEYYNSRISLKLKGDSN
7181	37549	A	7235	1	3219	
7182	37550	C	7236	1	7521	
7183	37551	A	7237	1351	2117	CDRILCSACCAEPQPVSHLHRL RRSFSERQPDGNGSQNPASRDR/ DVVDVTVIAWIEHRGGHEAPS GPGEDGMDAPAIAGTFSPREA STLPVQVS*VCRLNCCSRDVPK ATRVPL/EKLAGPLRHPFLMF QTCLHLSLFTHHFADDSSRLQIF SVGFVAGLKQQYRDDLLQGDV NPRMATAVGNDQVWFQSGNG FQARLRARSDDLPRFQVRTHFG QDAFCIVIVGNTDRDDVHGGQ RIGEREFFQHHNPLWRFFEC
7184	37552	A	7238	690	868	

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7185	37553	A	7239	2607	3692	TWLRICSRHSKSLILTSI/HVLH SDQGWQYRMRRYQNLKEHGI KQSMSRKGNCLDNAVVECFG TLKSECFYLDEFNSNISELKDAVT EYIEYYNSRISLKLKGGLTPIEY RNQTYMPRVNCPLFDTLRIPDI GGVVRARAIAKLLNDTDMAIID KRRPRANVSQVMHIIGDVAGR DCVLVDDMIDTGGTLCKAAEA LKERGAKRVFAYATHPIFSGNA ANNLRNSVIDEVVVCDTIPLSD EIKSLPNVRTLTSEKYTAARFT RDLIAGITVGIIAIPALAMALAIGS GVAPQYGLYTAAVAGIVIALTG GSRFSVSGPTAAFVVILYPVSQ QFGLAGLLVATLLGDLFDSDG
7186	37554	A	7240	1326	3930	NVLRGISAFFVG*AKAPRNGT Q
7187	37555	A	7241	3	195	RVDDFVGGAGAPASPGL*QCG QLQKLIGISIGSLRGLGTCAVS NDLTEQEIRTLEHCPNSFF
7188	37556	B	7242	75	402	
7189	37557	A	7243	1	309	
7190	37558	A	7244	3	187	
7191	37559	A	7245	383	1778	
7192	37560	A	7246	2	447	IREKLIRLQHENKMLKLQNQEGS DNEKIALLQSLLDDANLRKNEL ETE/Q*VLVPINFPLTTAFAVSH RFRLVNQRLLEVQSQVEELQKS LQDQGSKAEDSVLLKKLEEH LEKLHEANNELQKKRAIIEDLE PRFNNSSLKIEELQEALR
7193	37561	B	7247	80	1042	
7194	37562	A	7248	1	192	
7195	37563	A	7249	3	62	
7196	37564	B	7250	219	230	
7197	37565	A	7251	246	594	
7198	37566	A	7252	1	316	
7199	37567	A	7253	1	1059	
7200	37568	A	7254	1	516	EDALEQEKKELQIQVEHYEFQT RQLELKAKNYADQISRLEERES EMKKEYNALHQRHTEMIQTYV EHIERSKMQVGGNSQTESSLP GRSRKERTPSLNVFPLADGT/CT CTDRGQARACGGPLAPE*PRPA AVQLQLPGFVAWPWSERLLPV AGVPRSLGREGPRLQAALHGS
7201	37569	A	7255	1	1176	
7202	37570	A	7256	1	749	
7203	37571	A	7257	1	691	

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7204	37572	A	7258	2	810	VMMTGYNNNGRCPRNSLYSDCII EEKTVVLQKKDNEGFGFVLRG AKADTPIEEFTPTPAFPALQYL\ ESVDEGGVAWQAGLRTGDFLI EVNNENVVKGHRQVNMR QGGNH\FLKVVTVTRNLDPDD TARKKAPPPKRAPTTALTLS KSMTSEELELVDKASVRKKKD KPEEIVPASKPSRAAENMAVEP RVATIKQRPSSRCFPAGSDMNS VYERQGIAVMTPTVPGSPKAPF LGIPRGTMRQKSIGKCGTPP QKLPLGFQTQP
7205	37573	A	7259	1	1416	
7206	37574	A	7260	2	1142	
7207	37575	A	7261	1	576	
7208	37576	A	7262	21	289	
7209	37577	A	7263	2	372	
7210	37578	A	7264	170	655	VRRRLGALFTWICSVTRESTSK PLSSALLSAKLLHRARSRTGLS GRNPKTISQLQFAAIGSPLTES LNLSRQALRDCCWTHTIPPNP *ICTHARR/WRDCCWTHTIPPNP DTVWRFPLSSPVSAAPKQERAS SEPCSWSHWCRCSSLWLSSIPTE GCTPVCSSICLLMATFPMFSLIK IVR
7211	37579	A	7265	1	1725	
7212	37580	A	7266	307	686	PRRTPMKSCKIKEVPIFVFPLRT TRENCLRPIKGYAIYEKAPRSIL KDVHLTRNQCVPIDRYKWWS WQVCRRPKQWGWTQGPVAPK RSAEFFAAHA*KRRRVMLNLR GLDVDSLVIEHIQVNKAP
7213	37581	A	7267	1	276	
7214	37582	A	7268	1	726	
7215	37583	A	7269	3	231	
7216	37584	A	7270	1	217	
7217	37585	A	7271	3	283	KRKTEGDAKGDKAKVKDESQR RSARLSAKPAPPKEPKPKKAP AKKGEKVKPGKKRkadagke REGYWRSQVKCIHFL*LYFW*L YSLKYYFI
7218	37586	A	7272	1	1188	
7219	37587	A	7273	5	365	
7220	37588	A	7274	1	453	

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7221	37589	A	7275	1	441	RQPAHPGTSSAAAAPRKRSAAG HAGVAVAASARLPPCAGCGLRAAPPL AASSARLRALRRP\GGLWAAGCAPAAGQLCTAAGSAAP GALQRCGGRHGIGITPWCAEIASAG*GS GGSRWGCWPCPCLLRTCTSHPLSSPLPFTH GSLQASFSLTRDCVSSTKTLWVVLEVQR
7222	37590	A	7276	2	1957	
7223	37591	A	7277	1	678	
7224	37592	A	7278	1	720	
7225	37593	A	7279	190	2947	QALQRGLLSR/DRAPCSSKLSW RS/SPRRRAGTGPVQEVALKP VLLRHPVQPVIRVKLPRICLLEE AGQLRGVHRLESVEEYYEADG AEWGPPDTAMLESLPEMAGKH SLPQLLDSSSASQPGAIQIIYSIL YQIHYLKHLSSYWGA SQWKHTRHTHYFESLW*EHLPS*KYQK REKWADLTRSLENP\GQQPRDS WEPSGF WALPQAGDSCQTSQSP RKPTGPPKPSPPP EEGRLLLRCPT MPVMRKS LTE
7226	37594	A	7280	3	439	
7227	37595	A	7281	1	273	
7228	37596	A	7282	2	1664	
7229	37597	A	7283	1	7511	
7230	37598	A	7284	1	5046	
7231	37599	A	7285	42	8716	
7232	37600	A	7286	2	201	
7233	37601	A	7287	2	797	CS/GSPPTCRQAQTSLEV ALYMFLQNP DTEAVLVAMSCFCHLCE EADTQCGVDEVS VHNLLPNSNTFM EFACQQCDVN SPPVGPVSE HKGSMIS VMSSEGNA DTPVSKYMD QLLSLMVC NLEKVGLQIP TN DKDLVLL TDNTQFVE QTLDIM KNLLDN HTEGSPEH LEQAS IETMM NLNVR NKMVE YLT DW VMG TSNQA ADD VKCL TSRI/D HPGG TLL*GQ P RPELP AGL PRQ P ASPG P RHP GASC GW PRAPP DS APGG PGRER
7234	37602	A	7288	56	8669	
7235	37603	B	7289	278	2333	
7236	37604	A	7290	1	423	

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7237	37605	A	7291	2	1688	PLYFHSPPAWLCSPSPPSARLYL ELRKLPA\LPWSSVTDGSYSA GRRERGGEGEGRGRRVRVADH RSALPRTGPQGSEEE\ANMQGL \VERLERAVSRLES\SAESHRPP GN\CGEVNGVIA\GVAPSRGKPL HKLMDSMVAEF\LKNSRILSGD VETLAEIVHSAFQAQRAFLMA SQYQQPHENDVAALLKPISEK\I KEIQT\QRE/RTGSNMFNHL\SA VSESIPALGWIAVSPKPGPYVK EMNDAATFYTNRVLKDYKHSD LRHVDWVKSYLN\I\SELQAYI KEHHTTGLTWSKTGPVASTVS AFSVLSSGPG\PPPPPPLPPP\GPP PLFENEGKKEESSPSRSALFAQL NQGEAITKG\LRHVTDQKTYK NPSLRAQGGQTQSPTKSHTPSP TSPKS\YPSQKHAPVLELEGKKW RVEYQEDRN\DLV\SETELKQVA YIFKCEKSTI\QIKGKVNSIIIDNC KKLGLVFDNVVGIVEVINSQDI QIQVMGRVPTISINKTEGCHIYL SEDALDCEIVSAKSSEMNLIPQ DGDYREFPIPEQFKTAWDGSKL
7238	37606	B	7292	44	355	
7239	37607	A	7293	1	3623	SEKEKEELRLQKEEEERKKRL QLYVFVMRCIAYPFNAKQPTD MARRQQKISKQQQLQT\VKDRFQ AFLNGETQIMADEAFMNAVQS YYEVFLKSDRVARMVQSGGCS ANDSREVFKKHIEKRVRS\PEID GLSKETVLS\SSWMAKF\DAIYRG EEDPRKQQ\ARM\TASAASELILS KEQLYEMFQN\ILGIKKFEHQ\LL YNACQLDN\NPDEQAAQIRREL\D GRLQMADQIARERKFPKFVSKE MENMYIEELKSSVNLLMA
7240	37608	B	7294	1	1555	
7241	37609	A	7295	1	1056	
7242	37610	B	7296	54	2173	
7243	37611	A	7297	1	984	
7244	37612	B	7298	95	1350	

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7245	37613	A	7299	1	2569	MDGAKAFFSAVAAGFVILTCQLQWQWQHGGVHAHQLWQLASGYRDAFCVSTYSSGPSEFPGPTLGTLNELAIDLEERKHRRKAKVWKGEGGGLRSRPRQSLLAFRAVLASRGTRSRCHVSPYLGVSALSSPNPHPSTTGAGPIPPVQRWGLPQINQKNREIAIPLTGMSTHLRRGCKNMSRFPSLHCCTTPISTNFTDPGSHKGAHGDICILLIQNLKGALPMNSINRSYFNAHPLLQISEAVTFKDVAVVFTEEELGLLDPAQRKLYRDVMLENFRNLLSVGNQPFHQDTFHFLGKEKFWMKTTSQREGNSGGKIQIEMETVPEAGPHEEWSCQQIWEQIASDLTRSQNSIRNSSQFFKEGDVPCQIEARLSISHVQQKPYRCNECKQSFSDVSVFDLHQHQSHSGEKSHTCGECGKSFCYSPALHIHQRVHMGEKYKCDVCGKEFNQSSHQLTHQRVHTGEKPKCGQCGKGFHSRSALNVHCKLHTGEKPYNCEECGKAFIHDSQLQEHQRIHTGEKPFKCDICGKSFRVRSLNRHSMVHTGEKAFCRCDTCGKNFRQRSALNSHSMVHIEEKPYKCEQCGKGFICRRDFCKHQMVHTGEKPYNCKECGKTFRWSSCLLNHQVHSQKSFKCEEKGKGFYTNSSRRSSHQRSHNGEKPYNCEECGKDYKRRLDLEFHQRVHTGERPYNCK
7246	37614	A	7300	2	326	
7247	37615	A	7301	166	443	

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7248	37616	A	7302	1	2692	MDPGTLQSASQGPTAINPCDYVLKRRNIQTSWQRRLPIIKWHVYILMIGPGEKEAGRNLGIFGKWTPFPKIPAKRLRESNCPVDAQEIWLPQAFREYLGRRGNFCPGRRTEFWEVESICSVESWELWLRQADSGDSGKCSPDACGIIDTSLRAGHCYLTRLWHVSGRIPPSFKLHHPGVCKFPKVGGKMFTFKEAVTFKDVAVFTEEEELGLLDPAQRKLYRDVMLENFRNLLSVGHQPFHQDTCHFLRE\EKFWMMGTATQREGNSGGKIQTEMET\VPAGTHEEFSCQIWEQIASDLTRSQDTTISNSQLFEQDDNPSQIKARLSIIHVKTETSEGRTCKKSFSDVSVLDLHQQLQSREKSHTCDEC GKSFCYSSALRIHQRVHMGEKLYNCDVCGKEFNQSSHQQIHQRIHTGEKPKCEQCGKGFSRRSGLYVHRKLHTGVKPHICEKCGKAFIHDSQLQEHQRIHTGEKPKCDICCKSFRSRANLNRHSMVHMRKPFRCDCGKSFGLKSALNSHRMVHTGEKRYKCEEKGKRFIYRQDLYKHQIDHTGEKPYNCKECGKSFRWASGLSRHVRVHSGETTFKCEEKGKFYTNSQRYSHQRAHSGEKPYRCEEKGKGYKRLDLDFHQRVHRGEKPYNCKECGKSFGWASCLLNHQRIHSGEKPFKCEEKGKRFTQNSQLYTHRR
7249	37617	A	7303	1	585	KRTAISPKDAFETRQDLNEEEA AQVHGVKDPAP/ASTQSVLADG TDSAGN*ARQEPHKAA*PIQN YQANLVNTFPYSNNSGGRG/RL MKT/TQGSQQPSLADPASHLP VGDHLTYSNETEPVRALLPDEK KEVKPPALSMSNLHEATMPVL LDHLRETRADKKRLRKALREFE EQFFKQTGRSPQKEDRIPMADEYY
7250	37618	A	7304	1	366	

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7251	37619	A	7305	1	1265	RYRPGIPGSTISSLVEEHAPPSW EPQHQNVETVLVDSVLRPSM GNFKSRKPKSIFKAESGRSHGES QTEHVVSQSECQVRAGTPAH ESPQNNAFKCQETVRL\QPRID QRTATSPKDAFETR\QDLNEEE AAQVHGVKDPAPASTQSvla\D GTDSADPSPVHKDGQNEADSA PEDLHSVGTTSRLLL/YHTDGDN PLLSPLRFPLSGQSQRFNLDPES APSPPSTQQFMMMPRSSSRCSCG DGKEPQTITQLTKHIQSLKRKIR KFEEKFEQEKKYRPSHGDKTSN PEVLKWMNDLAKGRKQLKEL KLKLSEEQGSAPKGPPRNLLCE QPTVPRENGKPEAAGPEPSSSG EETPDAALTCLKERREQLPPQE DSKVTKQDKNLIKPLYDRYRII KQILSTPSLIPTIVSQDTCMLLC
7252	37620	A	7306	797	1390	PRMGARPRAPAAQPPPAAAQR PPARPATPTACGSSAHRAPSPA RSRRSPCTPRAAPAAPGPKAAR QWAGTATRSSRPQRSARRSPRD SSRCWAISRSKRAATACTPGA KRRVATKARGALWSKPKSKA MRLWPWCLSGLGS*KAQEVA QDPGSDEGRGRRLVESGLQDEG WVPQGGEGGVAGQDASHRGSF RGALK
7253	37621	A	7307	605	697	
7254	37622	A	7308	1	1263	
7255	37623	A	7309	257	1190	
7256	37624	A	7310	394	485	
7257	37625	A	7311	21	674	
7258	37626	A	7312	277	396	GLLPGWKI*CSRVFVTSAIHVE VAELEANLPCTCKVHFDPDNKL HCFQLTVTPDEGYYQGGKFQF ETEVPDAYNMVPPVKCLTKI WHPNITET
7259	37627	C	7313	74	316	
7260	37628	C	7314	211	390	
7261	37629	A	7315	1	2601	
7262	37630	A	7316	1	1365	
7263	37631	A	7317	358	760	SIPLLFRKSSLRK*CSAASIFSG SSKFKRSVNKEFPQTTSFNVL VGAQPVPSIECSLNKLRHISPVS VIVGVPDSLVQAFHGRHHVV RIRELFQFTEIFHPGSNPHLGLL LAENNEACLDQENALYMYKV
7264	37632	A	7318	1	1728	
7265	37633	A	7319	1	558	

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7266	37634	A	7320	2	1884	PAGAGPGQEAGAGPGPGAVAY ATGAEEGEMKPVAAGAAVPPG EGISAAPTVEPSSGEAEGLGEAN LVDVSGGLETESSNG\KDTLEG AGDTSEVMVTQAGSVDEENGR QLGEVELQCGICTKWFTADTFG IDTSSCLPFMTNYSFHCNVCHH SGNTYFLRKQANLKEMCLSAL ANLTWQFRTQEEHPKTMFSKD KDHIFIDKYWECMTTRHRPGK TTWPNNIVKTMSKERDVFLVK EHPDPGSKDPEEDYPKGFLLDQ DLSNIGPAYDNQKQSSAVSTSG NLNGGIAAGSSGKGRGAKRKQ QDGTTGTTKKARSPLFSAQR LPPHGYPLEHPFNKDGYRYILA EPDPQAPDPEKLEIDCWAGKPI GDLYRACLYERVLLALHDRAP QLKISDDRLLTVVGEKGYSMVR ASHGVRKGAWYFEITVDEMPP DTAARLGWSQPLGNLQAPLGY DKFSYSWRSKKGTKFHQSIGKH YSSGYGQGDVLGFYINLPEDTE TAKSLPDTYKDKALIKFKSYLY FEEKDFVDKAEKSLKQTPHSEII FYKNGVNQGVAYKDIPEGVYF PAISLYKSCTVSJNFGPCFKYPP KDLTYRPMSDMGWGAVVEHT LADVLYHVETEVDRGRSPWE
7267	37635	A	7321	1	267	
7268	37636	A	7322	60	888	RGAALARTRLSRPVGPAGTRR SHALGPRPGARSSFRLRCER CMCGNNMSTPLPAIVPAARKA TAAVIFLHGLGDTGHGWAEEAF AGIRSSHJKYICPHAPVRPVTLN MNVAMPSWF\DIIGLSPDSQED ESGIKQAAENIKALIDQEVKNGI PSNRIILG\GFSQGGALSPLYALT TQQKLAGVTALSCWLPLRASFP QGPIGGANRDISILQCHGDCDPL VPLMFGSLTVEKLKTLVNPAN VTFKTYEGMMHSSCQQEMMD VKQFIDKLPPID
7269	37637	A	7323	1	1182	

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7270	37638	A	7324	1	2469	MVDRARPTVLVTEVPLSKHT AQMLVLTANESQPLVHETAL KNKKPQSWFNPNCVSYNRKPG LQD*GRAERPELGEQATEAALL KAPAESVRQEHRSTNT/PQTRSC CPQYFPRAGCLPSRGHDVEPQH EAGDGPCRGIRNG*KLLSSFFG QQVRT**R/CSELTPKQEFFFKGS ESSNRTSGGLFGVVPGAAETGD VCVYTFKELEGQTSDDEGSRLE NDFLEITDEDKKKSTKDRYDKY KEVGEHPPPLSSSPVEHEGVLK QKSYRCDECCKAFNRSSHIGH QRIHTGEKPYECNECGKTFRQT SQLIVHLRHTGEKPYECSECG KAYRHSHLIQHQRLHNGEKPY KCNECAKAFTQSSRLTDHQRT HTGEKPYECNECGEAFIRSKSL ARHQVLHTGKKPYKCNECGRA FCSNRNLIDHQRHTGEKPYECS ECGKAFSRSSGLISHHRVHTGE KPYSCIECGKAFNQNSQLIEHQ RMHRGKKVYKCKECGKAFGLS KCLIRHQRLLHTGEKPYKCNECG KSFNQNSHLIIHQRHTGEKPYE CNECGKVFSYSSSLMVHQRTTH TGEKPYKCNDGKAFSDSSQLI VHQRVHTGEKPYECSECGKAF SQRSTFNHHQRHTGEKSSGLA CQEGNKEISKGPQKPPGYRLCP LQAVGGGEFGPTRVHISFLSD LKQIKVFFPGGPLMLEKQKKKS
7271	37639	A	7325	1	1596	
7272	37640	A	7326	2	3394	MAHAGGGGGSGAGGPAGR LSGARWGRSGSAGHEKLPVHV EDALTYLDQVKIRFGSDPATYN GFLIEIMKEFKSQSIDTPGVIRR SQLFHEHPDLIVGFNAFLPLGY RIDIPKNGKLNISPLTSQENSH NHGDGAEDFKQQVPYKEDKPQ VPLESDSVEFNNNAISYVNKIKTR FLDHPEIYRSFLEILHTYQKEQL NTRGRPFGRMSEEEVFTEVANL FRGQEDLLSEFGQFLPEAKRSLF TGNGPCEMHSVQ
7273	37641	A	7327	1	738	
7274	37642	A	7328	1	399	
7275	37643	A	7329	3	223	
7276	37644	A	7330	1	1040	
7277	37645	A	7331	1	465	
7278	37646	A	7332	1	288	

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7279	37647	A	7333	109	4770	
7280	37648	A	7334	109	4687	
7281	37649	A	7335	109	4860	
7282	37650	A	7336	1	336	
7283	37651	A	7337	1	441	
7284	37652	A	7338	305	446	
7285	37653	A	7339	2	461	
7286	37654	A	7340	59	620	FQKIGL**/FIDLKDGLFTIPLAE QDCEWFAFTIPVNNLQPAKRF HCFTDGSNNNGKASYSGSKNKV FQMSYTSQAQKAEVLAVIELIEN AQLRFHTDEQLMTLFTQLQTA VRSRMHPFYITHIRAHTPLPGPL TEGNQMADRLVANAIISSARHF QQHLL/THSHPPGDRSRSCRW RKKLEESGTSSHE
7287	37655	A	7341	1	1410	
7288	37656	A	7342	1	1740	MGQVWALVHSTLETFHTDEEE GEYNNEVTEQVCLPAKAGSAAV DLCCCTKAVSLLPGESPQKVPTG AGGPLPAGMTGLLLGRSSLNIK AVQVQTGVTDSDYNGEIQIVTS TSVPWKAKPGDHIAQLLIVPKK FEGLKKEPLQVERQSSCQGLGY/ PFLMAAIVKPPEPIPLKWLTDKP IWTEQWPLSKEKLEALEDLITQ QLKKGHIAPTFSPWNSPVFIKK KSAEQDCEWFVFTILAVNNLQL KPAKRFHWKVLPPQGPNNQQPIWI PSRYLKPYHKPDAKEEIPFGSQ GFPVAAMSRLTLRRTPTVTTSNT HRTQPPTWGQIEKLPQMAEENL RKAGQPVTISNWILPRITKFKPI EGAENVFTDGSSNGKASYSGSK GPLTEGNQMADRLVAKVISNA RHFHNLTNVNASGLKRRYSIT WKEAKAIQRCPTCQVMLSAE QHLQKSAAKTEAEKLVWWRD PITKSREIGKIITWGRGYACVSP GPNQQPIWPSKHLKPYHKPDA GEKIPGESRGPPVAAMSRLTLR RMPTVMSNTHRTQPPTWGQIK KLSQMAEENLRKAGQPVTMNN LMIAVITTAFNKG
7289	37657	A	7343	1	1239	

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7290	37658	A	7344	1	777	MPQNSLECALELGKKSLQEN VNINFPKTKLFQFLKLTNWILPKI TKFKPIEGAENVFTDGSSNGKA SYFGLKGKVQTPYAAQKVE LVAVIEVLTAFDMPVSMISDST YV VHSTQLTENAQLRLHTDEQ LMTLFSQLQTAVR\CFAVMGIP ASTTT/DNAPGYTSQALATFFS MWNIKRITGIPYNSQGQAIVER MNLSLKQQLQKQTEGDREYGT PQMQLNLALLTLNFLSLPKGQ MLSAAEQHLQKPAVKTEAEQLI
7291	37659	A	7345	1	1307	
7292	37660	A	7346	1	2040	
7293	37661	A	7347	1	1898	MAGAPPPAWLPHCSSISDCCAR NERGSVGVAPS KPARSAAVDL CCTKAVSLLPG EPPQKVP ARVC GPLPAGTVG LLLGRSSLSLKEV QIHTGVIDS DYKVEIQIVVSTSV PWKAEPGERIAQ LLVV PYVGT GKSEIKQTEGFGSTNKQGKAAY WVNQITDKH LTCEITI QGKKFK GLVDTGAD VSII SLQHWPSMWP IQSTQFNIVGV DGSNGKASYF GSKCKVFQ MPY TSAQ KVELVA IIEVLTTFDMPINVISDSSYVVHS TQLIENAQLQ FHTDEQLMTLFT QLQTAVRSRMHPFYI THIRAR\H TPLPGPLTEGNQ MADCLVATA VS NARHFHN LTHVN ASGLKCR YSNTWKA AKAI IQR RPTCQMV HSSSFTGGVNPQGLEPN SLWQ MDVTHVPSFGR LAYV HCVDT FSHVFWATCQSGESSACV KHH LLQGFVVMGIPASIKTDNPGY TSQALATFFSMLNIKRITDIPYN SQDVEADANADVGVDVDADA DVDAEEEVFTDADADA EVDVD EDADAERLRCNADEDSDLD VDAEMDADVDTNLDVDAADV VDVDADADVDADTDVDVDTG LNLEADL LDVDAD VDTDADV DRDADVEAVDADATVNADV DYVDVTDSD
7294	37662	A	7348	2	565	
7295	37663	A	7349	1	996	
7296	37664	A	7350	18	260	
7297	37665	A	7351	1	594	
7298	37666	C	7352	232	603	
7299	37667	A	7353	1	1236	
7300	37668	A	7354	568	1370	

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7301	37669	A	7355	1	1800	
7302	37670	A	7356	1	498	
7303	37671	A	7357	1	3400	MDCSEKWRDPLDAVCVLPATE EPVVQGSALYLVAHHDDYCV WYSLQRSTSPEKNERVRQMRPV CDCQAHLWNRPFRGEINDQD RTDRYVQALRTEIPLTLKGAKL QREEKEGDMPCRANILVTELF TELIGEGALPSYEHAHRHLVET SLGEQVIVPPVDVESCPGAPSV CDIQLNQVSPADFTVLSDVLP FSIDFSKQVSSAACHSRRFEPL TSGRAQVVLWSWWDIEMDPEGK IKCTMAPFWAHSDPEEMQ
7304	37672	A	7358	1	687	
7305	37673	A	7359	1	660	
7306	37674	A	7360	112	474	
7307	37675	A	7361	352	441	
7308	37676	B	7362	1	831	
7309	37677	A	7363	460	612	
7310	37678	A	7364	251	496	LFVSI/WQVFH*GRRGFLLVRN DCVQIWCEMISHSGFDLHFSDG Q*/WMSISSC/DFLAA*MSSFEK CLFMSFAHFLMGLFVFFL
7311	37679	B	7365	1	729	
7312	37680	A	7366	1	774	
7313	37681	B	7367	1	516	
7314	37682	A	7368	10	504	
7315	37683	C	7369	520	1656	
7316	37684	B	7370	1	1206	
7317	37685	A	7371	677	1126	AVLTTRKVCSTPEASSETTNPPG GTNNNSRRTALRAVALTAKVRS FTPGRSAASFNLKSVRPRTHQFRT Q*HVHQIEFSPGGLWESCPRAS SSTGDPGRPPERRGAARKTVG VQGVGVYSLPRKLCPFLSRTTYP HTSLRKDCLESDDTAE
7318	37686	A	7372	2	394	HIFIYLLVVLLWCPGWQTAG LKGSSCLSLLSNWNYRPPL*AL LLGTQKLPRVWNFIMVRRIQDG VKPSVSIAEREMKSRSKAASLL SQRDHEPTRRKRLRTHPNIRRN KLQTRHLKSCNTHCCEGPWRHS
7319	37687	A	7373	1	204	
7320	37688	A	7374	1	879	
7321	37689	A	7375	139	4488	
7322	37690	A	7376	1	933	
7323	37691	A	7377	335	582	VLQLLRQHVWSCSFLLVGSWS HWLQERSCRSSQ*VLQLIKAV WTQRTQEPESWLHLVDPAPGLQ VELPASPTRYAHTPQPLGG

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7324	37692	B	7378	1	3101	
7325	37693	A	7379	365	625	VAKIFSHVVVGCLFTLMVVSFAV QKLFSLIRSHLSILAFVAIAFGVL DMKSLPTPM*MVMPRFSSRVF MVLGLKFKSLIHLELIFV
7326	37694	A	7380	994	1167	NKGGHKQMEEHSMLMDRKHQ YRENGHTAQGNL*IQCIPHQAT NDFLHRIGKNKLASN M
7327	37695	C	7381	143	3529	
7328	37696	B	7382	54	1158	
7329	37697	A	7383	1662	1919	LLNVFALAFLVLLIEMPLGCQFW IFPAFSCRHLVL*ISLYTLL*MRP RDGGMWCLCSRWFQRTSLFLA SFRYVPSSHSGAGCSVSM
7330	37698	A	7384	63	1650	SPGHI*SSV*REIYSTKCPQEKA GKI*NSHPNITIKRTGEARANTF KS*QKARNN*DQSRTEGDRDT KNPSKNQ/CNPGAGFLKRSTKLI DR*QD**RRK*RRIK*T**KMIK GI/VTTDPTEIQTTIREFYKHFYA NRLKNLEEMDEFLETYTLPRLN QEEVESLNRPITGSEIEAIINSLP TKKSPGPDGFTAEIFYQRTNDKN HMIISIDEEKAFDKIQQPFMLEM LNKLGIVGMYIKIIRTIYDKSTA NIILNVQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLRALARQEKEI KGIRLRKEVFKMFLFADDMIVY LENPIISAPNLKLISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPPFTIATKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTNK WKNIPCSWIGRINIVKMAILPKV IYRFNAIPIKLPMTFFTELEKTTL KFIWNQKRALNAKTILSQKNK AGGIMLPDFKLPYKATWYWNQ NTEIDQWNKTEASEITPHIYNHL VFDNPDKNKK
7331	37699	A	7385	392	493	
7332	37700	A	7386	1	1223	
7333	37701	A	7387	386	553	KMIKGISPLIPQRYKLPSENTINT STQIN*KI*KKWIHSSTHTPSQD* TRKKLNL
7334	37702	B	7388	285	1581	
7335	37703	A	7389	1	1473	
7336	37704	A	7390	755	1042	SSYATKKEPALPSQSEAKKTKL ETSCYLTNTTTRLQ*PKQHGT GTKTEI*ANGTEQSPQK*YHTA TTIWSLTNLTKTRNGERIPYLIN GVGKTG
7337	37705	C	7391	1	2334	

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7338	37706	A	7392	1	1539	
7339	37707	B	7393	1	2361	
7340	37708	A	7394	5071	5535	GTAFLWRRRGALRFRVSSFSVL FFPHLCGFIYFWSLMMVMYRC VFGVDVLSVC*FSF*QTGPSAA GLLEYPAV*GVSVPLLGGASQL GCGSGVRGQQPT*GGSLPVLRSP AACWENHCSLQSCQTGTFKSA EVTAVFLFCALPPEVEPTEAG
7341	37709	A	7395	1	459	
7342	37710	A	7396	3	1063	
7343	37711	A	7397	39	895	
7344	37712	A	7398	2	277	
7345	37713	A	7399	34	845	
7346	37714	A	7400	1	3399	
7347	37715	A	7401	1	3126	
7348	37716	A	7402	1	387	
7349	37717	A	7403	1	3578	RDLVVGC GGFKVSDVEINYSLI EIKLYTKHGTLKYQTDCAPNN GYFMIPLYDKGDFILKIEPPLGW SFEPTTVELHVDGVSDICTKGG DINFVFTGFSVNGKVLSKGQPL GPAGVQVSLRNTGTEAKIQSTV TQPGGKFAFFKVLPGDYEILAT HPTWALKEASTTVSVTSNAN AASPLIVAGYNVSGSVRSRDGEPM MKGVKFLLFSSLVTKEDVLGC NVSPVPGFQPQDESLVYLCYTV SREDGSFSFYSLPSG
7350	37718	A	7404	34	460	
7351	37719	A	7405	105	245	VSSEKVSLGVPCPAASAAAASGD ASR*MATGRGGGGGGVAALPE SAP
7352	37720	A	7406	1	1289	
7353	37721	A	7407	462	5250	
7354	37722	A	7408	714	887	
7355	37723	A	7409	1	109	PLRQLLCVKRGFC*HH*HEGCQ SRLLLRCLLCSTA
7356	37724	A	7410	1	1845	
7357	37725	A	7411	192	1507	
7358	37726	A	7412	2	688	
7359	37727	A	7413	1	518	
7360	37728	A	7414	1	276	

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7361	37729	A	7415	984	3112	MWQETFFRMENLQLIIILGSP SQLHPVIRNNQGWTLYHQWP HFLNRFSSRLSNSLLNQLKFTC ANCKKPLQKGQTAYQRKGSAH LFCSTTCLSSFSHKPAPKKLCV MCKKDITTMKGTI/VLAQVDSS ESFQEFC\\$TSCLISL/YEEQQNP TKG\ALNKSRCTICGKLTEIRHE VSFKNMTHKLCSDHCFNRYRM ANGLIMNCCEQCGEYLPSKGA GNNVLVIDGQQKRFCCQSCVSE YKQVGSHPSFLKEVRDHMQDS FLMQPEKYGKLTCTCRTQC RFFDMTQCIGPNGYMEPYCSTA CMNSHKTKYAKSQSLGIICHFC KRNSLPQYQATMPDGKLYNFC NSSCVAFKQALSMQSSPNGQFV APSDIQLKCNYCKNSFCSKPEIL EWENKVHQFCSKTCSDDYKKL HCIVTYCEYCQEEKTLHETVNF SGVKRPFCSEGCKLLYKQDFAR RLGLRCVTCNYCSQLCKGGAT KELDGVVRDFCSEDCCKKFQD WYYKAARCDCCSQGTLKERV QWRGEMKHFCDFQHCLLRFYCQ QNEPNMTTQKGPNLHYDQGC QTSRTKMTGSAPPSPTPNREM KNKAVLCKPLTMTKATYCKPH MQTKSCQTDWTWRTEYVPVPIP VPVYIPVPMHMYSQNIQPPTV PVPVPVPVFLPAPLDSSEKIPAAI EELKSKVSSDALDTELLTMD
7362	37730	A	7416	1	1071	
7363	37731	A	7417	88	2118	
7364	37732	A	7418	2	2930	
7365	37733	A	7419	1	1677	
7366	37734	A	7420	172	13329	
7367	37735	A	7421	2	946	
7368	37736	A	7422	255	933	WIEAAPQAQEVQGDGLWLPCG AAGAGGLQSARSYGTVGEASV AEHPW/CAPGGCMAGCGSLAA AASPGLVPGHLP/QPTAAPSHPH RASLRVALLSGQWGLTCGQLL ASAPLLQSWAWDTRLLMCRRL SCSSEEGERIAQLLLLPLYLKLS STVKRTGGFGNTNPAGKAVYW VNQVSDKRPICTVAIQGKDFEG LVDTEADVSIIAINQWPQHWPK QKASIGIVGVGAA
7369	37737	A	7423	718	2385	
7370	37738	A	7424	1	180	

SEQ ID NO:	SEQ ID NO: of péptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7371	37739	A	7425	1	1713	
7372	37740	A	7426	1	774	
7373	37741	A	7427	2	158	
7374	37742	A	7428	1	174	
7375	37743	A	7429	252	1245	ELGECGCRQGSVSHCGRGSRPL LPRVRGKRHLPRARLARCQEAL SPWGFCRFRNHHTGFSLAGA NQRGPLAATLSGPGEQSAV ARLMGEKKNHPGAQYATRLSP RVGRFINAAGTTGFPTGKRAPT CWPGAD\IIPSCALPRIETELM GKFDEGKLPTDPHMLGLAIET VAHDYDVIVIDSAPNLGIGTINV VCAADVLIIVPTPAELFDYTSAL QFFDMLRDLLKNVDLKGFPED VRILLTKYSNSNGSQSPWMEEQ IRDAWGSMVLKNVVRETDEVG KGQIRMRTVFEQAIDQRSSTGA WRNALSIWEPVCNEIFDRLIKPR
7376	37744	A	7430	1	1113	
7377	37745	B	7431	56	1234	
7378	37746	A	7432	667	1048	LLLFRDLGIGTINVVCAADVLI PTPAELFDYTSALQFFDMLRDL LKNVDLKGFPDVRIILTKYSN SNGSQSPW\MEQIRDAARFPV GKPVVPAALMNRPTRRGEAVC VLGARVVFLFTSETGNS
7379	37747	A	7433	1	1428	
7380	37748	A	7434	1	1125	
7381	37749	A	7435	1	756	SDRRYEWDRGPSLIIRPTIRVGP WSQTNNQTDDSGTVV/RRPFP PVIGVVFHKGGVYKTSVSVHL AQDLALKGLRVLLVEGNDPQG TASMYHGWPDLHIHAEDTLL PFY\DPHMLRLAIETVAHDYD VIVIDSAPNLGIGTINVVCAADV LIVPTPAELFDYTSALQFFDMLR DLLKNVDLKGFPDVRIILTKY SNSNGSQSPWMEEQISDALRIS QRNNISSKFLQ SACITLTFIST CWAIIVTQSG
7382	37750	A	7436	1	1329	
7383	37751	A	7437	1	1185	
7384	37752	A	7438	1	1065	
7385	37753	B	7439	67	1033	
7386	37754	A	7440	1	1192	
7387	37755	A	7441	1	1413	
7388	37756	A	7442	1	1176	
7389	37757	A	7443	1	1302	
7390	37758	B	7444	1169	3356	
7391	37759	A	7445	14	3974	

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7392	37760	A	7446	677	1033	RATASSISTTRPCESTSNAPSCNSPIRSRSPPLPIRPRASITLILVSMMRMVRATISCAILVSRCQPAISPPLCTAFFRPICAAGVPVF TLFTTTP*SLPLLLISAPSMPPLKMELES T
7393	37761	A	7447	1558	1748	CSNASARFFAAVNPSGLGMILM*SRFIVFTKLSAIPLLSGLRTAVFGSSPNIRANWRVSLAR
7394	37762	A	7448	1	595	LKNSKPQVVMAAAGIFLIMCGVWLGFGGVLDPTKSSGYLIVDIYNEIIICMLSNRIAGLGLSIMAVG GYARYMEGTPASRAMVSLLSRPLKLIRSPYIILSAT*VIGQIMP\Q FITSASGLGMLLMVPLFPTLVSLGVSRSLAVAVIATTMSIEWGIL ETNSIFAAQVAGMKIATFFCHAHNPVASRVILSVAISGTRAR
7395	37763	A	7449	1	978	
7396	37764	C	7450	32	316	
7397	37765	A	7451	1	2465	
7398	37766	A	7452	1	1416	MIILIDAEKAFDKIQQPFLKTL SKLGTGDTYLKIIRAIYDKPTANII LNGQKLEAFPLKTGTRQGCPL SPLLFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSEL PFTIASKRKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWGRINIVKMAILPV RDIDQW/NRTEPSEIMPHTYNYL FDKPEKNKQWGKDLSLFHKWC WENWLA VCRKLKLDPLPTPYT KINSRWIKDLNIRPKTIKTLEEN LGITI QDVGVKDFMSKAPKAM ATKAKIDKWDLIKLKSFCTAKE TTIRVNRQPTTWEKIFATYSSD KGLISGIYNELKQIYKKKTNP KKWA KDMNRHFSKEDIHAAK KHMKKCSSLAI REMDIKTTMR YHLTPVRMAI KKSGNNRCWR GC GEIGTL

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7399	37767	A	7453	3	2272	RSTRQKVNKDQELNSALHQA DLIDLYRTLHLKSTEYTFPSAPH HTYSKIDHILGSKALLSKCKRTE IITNYLSDHSIAKLELRIKNLTQ NRSTTWKLNNLLNDYWVHN KMKAEIKMFFETNENKDPTYQ NLWDTFKAVCRGKFIALNAHK RKQERSKIDTLSQLKELEKQE QTHSKASRRQEITKIRAELEKIE TQKTLQKINESRSWFFERINKID RPLARLIKKKREKNLJDAIKND KGDITTDPTEIQTIREYYKHY TNKLENLEEMDKFLDTYTLPR NEEEVESLNRPITGAEIVAIINS PTKKSPGPDGFTAIFYQRYKEE LVPFLLKLFQSIEKEGILPNSCY EASIIILPKPGRTTKKENFRPIS LMNIDAKILNKILAKRIQQHIKK LIHHHDQVGIFPGMGMQGWFNIRKS INVIQHINRAKDKNHMIISIDAE KAFDKIQQPMLKTLNKL/DIGR NYCKVHMEPKKSPHRQVNPKP KEQSWRHHTT*LQTLQGYSNQ NSMVLVPKQRYSMEQNRALR NNAAYLQLSDL*QT*EKQAMG NGFPI**MVLGKLASHM*KAET GSLPYTLYKNQFKMD*RLKR*T *NHKNPRRKPRHYHSGHRHGQ GLHV*NTKSNGNKSQN*QMGS N*TKELLHSKRNYHQSEQATY KMGENFHNLII*QRANIQNLQ* TQTNLQEKNKQPHQKVKGHE
7400	37768	A	7454	1	3020	
7401	37769	A	7455	1	3046	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDHSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDLYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSIAK LELRIKNLTQNRSTTWKLNNLL LNDYWVHNEMKAEIKMFFETN ENKDPTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLSQL KELEKQEQTSHSKASRRQEITKIR AELKEIETQ
7402	37770	B	7456	197	1917	
7403	37771	B	7457	1	1954	

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7404	37772	A	7458	1	1947	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGRQGWFNICKSIN VIQHINRAKDKNHMIISIDAEGA FDKIQQQLFMLKTLNKLGLDGTY FKIIRAIYDKPTANIILNKGKLEA FPLKTGTRQGCPLSPLLFNIVLE VLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPVSAQN LLKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEADANKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELEKTTLKFIWNQK RAHITKAILSQKNKARGITLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTQPSEITPHIYNYLIFD KPDKNKQWGKGSLFNKWCWE NWLAICRKLIKLDPLTPYTKIN SRWIKDLNVRPKTTKTLLEENLG ITIQDIGMGMDFMSKTPKAMAT KDKIDKWDLIKLKSFCATAKETT IRVNRQPTKWEKIFTYSSDKG LISRIYNELKQIYKKKTNNPPIKK WAKDMNRHFSKEDIYAACKH MKKCSPSLAIREMQIKTTMRYH LTPVRMAIHKSGNNRCWRGC GEIGTLLHCW\WINWMKKTWH IYTMEEYYASIKKNEFMSFAGA* MKLETII
7405	37773	A	7459	1	1713	

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7406	37774	A	7460	281	2882	KPRLENYMKNAEASRADAINW KKGY/LVMEDKMNEMKREGKF REKRIKRNKQLQEIWDYVKRP NLRLISVPESDRENGTKLENTL QDIIQENFPNLRQANIQIQEIQ RTPQRYSRRAATPRHIIVRFSKV EMKEKMLRAAREKEIQTNIHEY YKHRYANKLENLEEMDKFLNI YTLRRLNQEEVESLNRPIRGSEI VAIINSLPTKKSPGPDGFTAELY QRYKEELVPFLLKLFQSIEKEGI LPNSFYEAJILIPKPGRDTTKKE NFRTISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFIQGMQG WFNIRKSINVIQHINRTKDKNH VIISIDAEKAFDKIQQLFLLKTL NKLGDIDGTYLKIKRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLRARIRQEKEI KGJQLGKEEVKLSLFADDMIVY LENPIVSAQNLLKLISNFSKVSG YKINVQKSQAFLYTNNRQTETQ IMSELPFTIASKRKYLGIQLTRD VKDLFKENYKPLLNEIKEDTKK WKNIPCSWGRINIMKMAILHK VIYRFNAIPIKLPMTFFTELEKTT LKFTWNQKRARIAKSILSQKNK AGGIMLPDFLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIT PHIYNYLIFDKPEKNQWGKDS LFNKWCWENWLAIWRKLKD PFFTPYTKINSRWIKDLNVRPKT
7407	37775	B	7461	1	2633	
7408	37776	A	7462	3	1336	

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7409	37777	A	7463	2	2458	SWFFEKINKIDRPQARLIKKKRE KNQIDTIKNDKGDITTDPTEIQIT IREYYKHYANKLENLEEMDK FLDTYTLPRLNQEEVESVNPIT GSEIEAITNSLPTKKSPGPDGFT AEFYQRYKEELVPFLLKLFQPIE KEGILPNSFYEASHIILPKPGRDT TKKGNFRPISLMNIDAKILNKIL ANQIQQHIIKKLIHHHDQVGFI PG MQG\WLEVLA/IRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PTVSAQNLLKLISNSK VSGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRKYLGIQLTRDVK DLFKENYKPLLNEIKEDTNKW KNIPCSWIGRINIVKMAILPKVI YTFNAIPIKLPMTFFTELEKTTL KFIWKQKRSHIAKSILSQKNKA GDITLPDFKLHYKATVTKTAW YWYQRDIDQWNNTPESEIML HIYNHLIFDKPDKNKQWGND S LFNKWCWENWLAICRKLKD P FLT SYTKINSRWIKDLNVRPKTI KTLEENLGNTIQD IGMGKDFMS KTPKAVATKAKIDKWDV IKLK SFCTAKETTIRVN RQPT EWEKIF ATYSSDKGLISRIYNE LKQIYKK KTNNPIKKWAKDMNRHFSKED IYAAKRHMKKCSSSLAI REMQI KTTMRYH LTPIRMVIKKSGNN RAPGGRGCGCSFGRLKRSCVP ALKRVADLPAQRSSSAKGETAS
7410	37778	A	7464	2	2101	
7411	37779	A	7465	196	792	GILSAKDMNRHFSKEDIYAA K KHMKKCSSSLAI REMQIKTTMR YH LTPVRMAI KKSGNNRCWR GC GEIGTLLHCWL DCKLVQPL WKS VWRFLRDLEI PFDPAIPL LG IYPNEYKS CCYKD TCRMFI AALFTIAK TWEP PKCS NMIDWI K/KMWH/IYTRDTMRPKNDEVQ SLVG/TWVN WETTFSVTIAVQK PTRLSH
7412	37780	A	7466	3	610	
7413	37781	A	7467	1	1986	

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7414	37782	A	7468	965	4421	TWKGTTSRCKIMPKYRSTRQ KVNKDQELNSALHQADLIDY RTLHTKSTEYTFFSAPHHTYSKI DHILGSKALLSKCKRIEITNYLS DHSIAKLELRINKLTQSRSTTW KLNNLLNDYWVHNEMKTEIK MFETNENKDPTYQNLWDAFK AVCRGKFIALNAYKRKEERSKI DTLTSQLKELEKQEQRHSKPSR RQEITKMRaelKEETQKTLQKI NESSSWFFERINKIDRPLARLIK KKREKNQIDT
7415	37783	A	7469	1	1674	MGQLQRNARDLQESVMSIRM MPMEYVFSRYPRLVRDLAGKL GKVELTLVGSSTELDKSLIERI IDPLTHLVRNSLDHGIELPEKRL AAGKNSVGNLILSAEHQGGNIC IEVTDDGAGLNRERILAKAASQ GLTVSENMSDDEVAMLIFAPGF STA EQVTDVSGRGVGMDVVKR NIQKMGGHVEIQSKQVTGTTIRI LLPLTLAILDGMSSLTHGIGQF ADVACAGPLAAELDALGKAL KEPARPMVAIVGGSKVSTKLT LDSL SKIADQLIVGGGIANTFIA AQGDVVGKSLYEADLVDEAKR LLTTCNIPVPSDVRVATEFSETA PATLKVNDVKADEQILDIGDA SAQELAEILKNAKTILWNGPVG VFEEFPNFRKGTEIVANAIADSEA FSIAGGGDTLAAIDLFRIAKNS YISTGGGAFLEFVERLTTLTQ HDQGYVTQAIGKWHMRETTEP QPQNVGFDDFRGFNSVSDMYT AWRDVHVNP EVALSPDRPAYI NQSPLSKDDVHALRGGDQQAI AD\ITPKYMADLDQRCTEYGAQ LLDKMAKSA
7416	37784	A	7470	1	3360	
7417	37785	A	7471	2	543	
7418	37786	A	7472	1387	1805	QAI AF DVQPGRGDYAGNQRHH NQYNQHQAH*SWQRCIGDGL AR FAR HNATKPANKPGETGDR FNHQKNHGGQQDPVLHQLIEV MLVGRGGDQAVGQATLGIDTN VGLHAKV/LTDCLSWSDASPDR VAALCSWSSWVPQ
7419	37787	A	7473	4088	4228	SPPSA*VKALPGPKHHGLKP HPIPGASLVLARRWSMFRRWG LIT
7420	37788	A	7474	332	538	

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7421	37789	A	7475	1	1983	
7422	37790	A	7476	856	964	
7423	37791	A	7477	1	1563	
7424	37792	B	7478	1	1086	
7425	37793	A	7479	372	886	
7426	37794	A	7480	2028	2368	RPPGNSLNVRMGTRSSYSCRR HSPAFLSWGKGRCHLCNKAHL LAGA*HYSFLSGSAPY*N*VNG QI**R*TAHRSTPDAPTGH*NCC S*L*CHSY*QRA*PGYRHD*CR MCC
7427	37795	A	7481	146	402	LGFLLRLSEMPRKQGDYRTRI/C EIRGRVEQRVGYTIEQINHMRD VFDRRYEWDHGPRLIIRPTIRVG PWSQSDYQTDDTS GTVVVPD
7428	37796	A	7482	3	149	
7429	37797	A	7483	5	753	ARKVVAVAARHKCPA/CISFSA SHRLYRYWEEEMNPAPVEAMR TFQQFIDEGNYTSGDTHTLRDP HYVEDKAHKYLVFEANTGTEN GYQGEESLFNKAYYGGGTNFF RKESQLQQSAKKRDAELANG ALGIIELNNNDYTLKKVMKPLITS NTVTDEIERANVFKMNGKWL FTDSRGSKMTIDGINSNDIYML GYVSNSLTGPYKPLNKTGLVLQ MGLDPNTNIQTDDTS GTVVQT NNQTADTSGTMVPD
7430	37798	C	7484	182	709	
7431	37799	B	7485	1	1488	
7432	37800	A	7486	2	1034	YLISQRGLIRR SKISLQTGSQIER AFLQAPVEER*SMACSK/YSSHP DLTFTNFIRFTYNIP*NHASPGIP NLLLHPRGLRAITIAVFGKQNT YIRLEPFKINVLEQITKIEKLQC G/ECSQTTQQAWEQSAHQHQR H*SCRYPG*ARCQ*VHQARTL* DQRS*ADHEAYRKTAVRRCSQ TTQQAWEQSAHQHQR*SCR YPG*ARCQ*L*HHSHEQQFQWP VG/CIRCGSVGSLPSS\ICPLTQF QYGAEPDRKE*CQAPASKWAL LHK*HRPFPQDRKAGECLLHEY EDLVPIRDTRLFPGGRYLPRA KHVAPSEPDTIRVGPWSQSDY QTDDTS GTVVVPD
7433	37801	A	7487	2	426	
7434	37802	A	7488	138	346	RWRLQNLSFCSSC/SRIWL*RGY VFCSWKPREQSSQSPLACSAAC LTLRTQSCLGTAGQTDDTS GT MVQY

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7435	37803	C	7489	1	1290	
7436	37804	A	7490	48	439	HHHSGLDD/HRRKILNTAYRSRKLQASC*KSAERAWKTKASLTVNGWMKKIRCKTPMCRPTVR*SIRILIITPLPRVPSRS*LPKPTSCT*CIFTQPTRC*KMTTCWRCSTSRKSSGHVCVSPGSVAVTI
7437	37805	A	7491	1126	1340	KARWMLQTRKRAVRRSNWRKRNIWCAPAAICKRSTTLITSF*KPVKMACPFICAMLRRSRLARRCAGALPN
7438	37806	A	7492	12	960	
7439	37807	A	7493	1	1806	
7440	37808	B	7494	1	1318	
7441	37809	A	7495	1	1385	MLQIPKQQQNEKYQVPQFDQSTITKNIESAKGLDVWDSWPLQNADGTVAEYNGYHVVFALAGSPKDADDTSIYMFYQKVGDNSIDSWKNAGRVFKDSDFDANDPILKDQTQEWSGSATFTSDGKIRLFYTDYSGKHYGKQSLTTAQVNVSKSDDTLKINGVEDHTIFDGERKTYQNVQQFIDEGRNYTSGDNHTLRDPHYQNTYIRLEPKINVLEQITKHIEKLQCGGVVKQLSRRGNHQHISSTYDINRADTQVRRAVNYYDIIVMSNSFNGQSEHQVWIDRKAGECLLHEYEDLVPIRDTLRLFPGGYRLPRAKHVAPSEPDEEQDEQKLSCTYRKRYRVLVGELGDEQMAALSRLGNDYRPTSAAYERGQRYSALLQNEFAGNISALADAENISRKIITRCINTAKLPKSVVALFSHPGELSARGDALQKAF*SASPDRADSSPG*EKRATTD/SRQFGGVDTAGNNLT*NIFRISQRNRNISSKFILQ*ACITLTTFISTCWAIIVTQSG/LMQPSAHHPARQPEHDIAFGKCSSSVHLA/LSGSEGATCFARGR*RPPGNSLNVSRMGTRSSYSCRHSPAF\HRS TPDAPTGH*NCCS*L*CHSY*QRA*PGYRHD*CRMCC
7442	37810	B	7496	1	3597	
7443	37811	A	7497	1	666	
7444	37812	A	7498	1	738	

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7445	37813	A	7499	1	727	MKVLIVESEFLHQDTWVGNAVERLADALSQQNVTVIKSTSFDDGFAILSSNEAIDCLMFSYQMEHPDEHQNVRLIGKLHERQLNVPVFLLGDRKALAAMDRLLELVDEFAWILEDTADFYRRTAPVARE*TRYPPGSCWPPLF/TAPLMKYSDIHEY\SWAAPGHQGGVGFTKTPAGRFYHDYYGENLFRTDMGIERTSTAVSLLDHSGAFGQSEKYYAARVFGADRWSVVVGTSGSNRTI
7446	37814	A	7500	1	744	
7447	37815	A	7501	1	250	
7448	37816	A	7502	1	850	
7449	37817	A	7503	1	1085	GNLAAGKTIQAQDRDAVGILSSRTGESMENLQKNLLPKQRRRTRETFTMSGALDVLIKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEEL\LRQPRA\MPVPIENPAD\VSVISSR\NTGQVCGTVRAV\LRFLAATGATPIGG\RFTP GTFTN\QIQASLPGSPRAFLWVT*PPGAEPPLSRSASLC*PFLPLALVNPD/SPLRRYVIIAIPCNNKG AH\SVGLMW\MLAREV\LRMRGTISREHPW\EVM PDL YFYRDPEEIEKEEQAAAEEKAVTKEEFQGEWTAPAPEF/TLATQPEVADWSEG VQGAPLVP\IQ QFP\TEDWSAQPAT E\DWS*A\PLAQATEWVGATT DWS
7450	37818	A	7504	1	1053	
7451	37819	A	7505	2	654	
7452	37820	A	7506	674	805	TLMQKSSIKYWQTESSSTSKSLSTMIKWASSL*REIYSTKCPQEKA GKIQN*HPNITIKRTRKARANTFKS*QKARNN*NQSRTEGNRDTKNPSKN**/MPGAGFLKGSTKLD R*QD**RKKERRIK*/IAKNDKGDTTNPTEIQT TIREYYKHL YANKLENLEEMHKFLDTYTLPRLNQEEVESLNRPITGAEIV*SIAY QPKKVQDQMDSQANSTRGTRRNWYHSF*TIPINRKRGNP*TLMQKSSIKYWQTESSSTSKSLSTMIKWASSLGGKAGSIYANQ

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7453	37821	A	7507	1	1577	MGDFNTPPLSTLDRSMRQKVNK DIQELNSALHQADLIDYRNLHP ESTEYTFFSAPHHTYSKIDHILG SKAPLSKYRSEIKINCLSDHSA IKLELRKKLTQNRSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDPTYQNLWDTLKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTSHSKASRRQEJ SKIRGELKEIETQKTLQKINESR GWFFEKINKIDRLLARLIKKKR EKNQIHAIKNDKGDMSTNHTEI QTIREYYKHYANKLENLKEI DKFLETYSLPRLNQEEVESLNR PITGSEIEAIAINSLPNKRSPGPDG FTAKFYQRYKEELLISNSFKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRMKYLGIQPT RDMKDLFKENYKPLLNEIKEDT NKWKNIPCSWVGRINIVKMAIL PKNWKKTTLKFIFIWNQKRARIA KSILSQ/IEQSWRHHAT*LQTILQ GYNNEENSMVLVSKQRYRSMEQ NRALRNNATYLQPSDL
7454	37822	A	7508	58	330	FTENDDFQFHPCPYKGHELIIFY GCIVFHGVYVPHFLNPVYHCW TFGLVPSLCYCE*CRNKHTCAC VFIAA*FIVIWVYTQ*WDGWVK WYF
7455	37823	A	7509	1246	1522	DCLGNAGSFLVPYELGHYGHF HNIDSSYQ*AWMFFHLFVSFFI SLSSGL*FSLKRSFTSLVSWIPR YFILFEAIVNGSSLMIWLSVCLL
7456	37824	A	7510	140	577	YSMVYMCHIFLIQSIIVGHLGW FQVFAIVNNVTINIRHVSL*QH DL*SFGYIPSNWMAGSNGISSR SLRNRHTVFHNG*TSLQSHQQC KSVPISPHPLQHLLFPDFLMIAIL TGVRWYLVIVVLICISLMASDDE HFFMCFLAA
7457	37825	A	7511	399	677	NQREQRHNIPESLGRIQSSV*RE IYSTKCPQEKGKIQN*HPNITI KTRKARANTFKS*QKARNN* NQSRTEGNRDTKNPSKNQ*IQE LVF
7458	37826	A	7512	1446	1855	IYKLPWAVWPFS*Y*FFLPMS/G GVFFHLFVSSFMSLSSGL*FSLK RSFTSLVSCIPRYFILSEAIVNGS SLMIWLSVCULLVYKNACDFCT LILYPETLLKLSISLRRFWAETM GFSRCTIMSSANRDNLISSFRN

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7459	37827	A	7513	1	2982	
7460	37828	A	7514	5202	5430	
7461	37829	A	7515	2	454	
7462	37830	A	7516	2	744	
7463	37831	A	7517	1	2422	MCPILREHRGSTEKGKRRQKRLP LETLKDEEVLAHRQEIEVAKA SPSKGNIIIFGYKGVEYHDQQ DVTSNFLGAMWLISITFLSIGYG DMVPNTYCGKGVCLLTGIMGA GCTALVVAVVARKLELTKAEK HVHNFMMDTQLTKRHCPWAA TIQPQLSFLISLPGCDYRGESAR ARPLSHPPLQLGLGKDARYLRI CDRSLLCVCAAAGNAGLPRD SPHTLLHWRSRSPYFFSPKPVPP QLLGGQPAAHSSRRDDLGEAGV GRGGCCFAALRGVQSEKWSGF HTVPEPAPGQGDVMPIVLVRPT NRTRRLDSTGAGMGPSSHQQQ ESPLPTITHCAGCTTAWSPCSFN SPDMETPLQFQRGFFPEQPPPPP RSSHLHCQQQQSQDKPCPPFA PLPHPHHHPHLAHQQPASGGSS PCLRCNSCASSGAPAAGAGDNL SLLLRRTSSPGGAFRTRTSSPLSG SSCCCCCSSRRGSQLNVSELTP SSHASALRQQYAQQSAAQQSAS ASQYHQCHSLQPAASPTGSLGS LGSGPPLSHHHHHPHAHHQH HQHQARRESNPFTEIAMSSCRY NGGVMRPLSMLSASRRNLHEM DSEAQPLQPPASVGGGGGASSP SAAAAAAA AVSSAPEIVVSKP EHNNNSNNLALYGTGGGGSTGG GGGGGGSGHGSSSGTKSSKKK NQNIGYKLGHRRALFEKRKRLS
7464	37832	A	7518	1	579	

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7465	37833	A	7519	1	1184	MSSANRSILEVPHLDILLQELPG VSKVVTVEVRGNWQRWLKVR DLTKGVTYFFRVQARTITYGPE LQANITAGPAEGSPGSQPRDV TKSASELTQWTEGHSGDPTT GYVIEARPSVFGNGSFQVSKEE NQYFSEGLTSIEVPSQQVQQEG AVAMALMVPDEGLWDMFVKD IPRSATSYTSLDKLRQGVTYEF RVVAVNEAGYGEPSNPSTAVS AQVEAPFYEEWWFLVMALSS LIVILLVVFAVLVLHGQNKKYK NCSTRQGISTMEESVTLDNGGF AALELSSRHLNVKSTFSKKNGT RSPPRPSPGGLHYSDEDICNKY NGAVLTESVSLKEKSADASESE VSVGAYFRAVTISPYFCKDAGF AVRTIALGLAETAGSKADARK
7466	37834	A	7520	1	1347	
7467	37835	A	7521	512	1051	MAYCKSTPAVGLRTV*SLSRL SLICYTFCIGAPSHLSVGSLIAT SFIVSNRPCRACYVDTIYRLPSP LRLAGHRTLPLKPSFRRSPPLL YYPSPRPPAHYPLSPSSEPNRRY TMALTAVPYPYTSPLQAFPLH SRIPQLQLFLTNSTSRTPV VQVLEILSQWKATTKWHYG
7468	37836	A	7522	352	546	
7469	37837	A	7523	1	360	
7470	37838	A	7524	3	349	
7471	37839	A	7525	1077	2142	SAVRYSVAITTADRRTAAGAIS YPTK*S*SEPIQEQQPEEQ/RAN YPNGTYPTSLRHRLERLWRSAL SVKARF/YHQHQYSLKKYRYKHI ADNVQCWLDEVFLRPKEMSDI HKLTFIEKRERLKNSVFKSLHD VRTVEDPSGTQLEVVSNNPWD PKRQLLKWDGTTKGWTGWDPD YSAAPPEAVPSLNNPQTSEQK LDEALYHGAVLVRPKAMTV VIIAGLLPILWGTGAGSEVMSRI AAPMIGGMITAPLLSLFIIPAA KLMWLHRHRWLKCKSARRPQ YQSGYTDDRHSRSVKA LPSLTHEQQQKAVERI GMSSGQAIALVAEELRANHS RIVARFEDEDE

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7472	37840	A	7526	116	191	RLKFTETNLYTNIYVGSIHIHLN LEIIHMSLH**MDRTNINIRVQIC FCEFDSLVLDDKPGRQELIDD NKRTDNFLTDMSGISVSDWIDAA TWEVFSSLRELELLGIKNIRLAS QDLHGVLISSETVAEDIWCRILD TVTRKGEHSRIHSADDKSYLR PDLLEWFKQRVEDDQSRSGRKI YVKRDLPHILTPFRAPMASVCA KRKGQVLHQHQYSLKKYRYKHI ADNVQCWLDEVFLRPKEMSDI HKLTIEKERERLKNSVFKSLHD VSEFLGRVLLHATDPAAPRKPA YSLHAIRGKSGRKNS
7473	37841	A	7527	1	177	
7474	37842	A	7528	1	399	
7475	37843	A	7529	3	209	
7476	37844	A	7530	1	288	
7477	37845	A	7531	2	256	
7478	37846	A	7532	414	1188	TSFLTTGGKKGS\KKKVVDPFS KKD/WL*YVKHPAMFNIRNIGK DVGSPTQGTKIAS\DGKLG\RV FEVSLADLQHDEVAFRKFKLIT \EDVQGKNCLTNFHGMDLT\RD K\MCMSMVKKW\QTM\EAH\VD VKTI\DG\YLLRLFCVGF\TKKR NNQIGKPF*AQ\HHRVRQIGKK MMEIMTREVQTNDLKEVVNKL IPDSIGKDIKACQSIYPLHDVF VRKVVMLKKPKFELGKLMELH GEGSSSGKATGDETGAVERA
7479	37847	A	7533	1	1140	
7480	37848	A	7534	131	410	
7481	37849	A	7535	1	861	
7482	37850	A	7536	1	406	MWEILELPRDLLNGFAQNADS NMDNKVQAEVALDGNGELVG YYSKASAGDTQANRVWSGPPA NSNRPAEGERNTININKDIN TKTPSVGHRHQRPKVDKTTKT RKTRAEKLKILKTRVPLIFQRT AALRQR
7483	37851	A	7537	1366	1629	TQSPVQTAKPTPITTRGGGLPTQ PFPVILQRQFCPE*LVAFMGS*E DVP*GSFRVSAESSIL*RAP*GA QSTCKPVNRNEKISKRIVH
7484	37852	A	7538	502	648	

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7485	37853	A	7539	I	1169	PPLIIPRQTGSGVDLQQPTDLO LRVLTVRRKTNQKQGHPHQNSI CTSPSSKTKDFKPTKIKRDKEG HYIMVKGSIQQEELTILNIYTPN TGAPRFIKQVLRDLQRDLDHSHT IIVGDFNTPLSTLDSSKRQKVDK DIQELNSALYQADLTDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCNRTEIITNCLSDHS AIRLELRIKKLTENRSTTWKLN NLLKDYWVHNEMKAEIKMFF ETNENKDPTYQNLWDTGKAAC RGIFIAINAHKRNQKRSKMDTL TSQLKELEKQEQRHSKASRRLN QEVEVESLNKPRTGSEIEAIINSLP TKKSPGADGFTAIFYQRYKEE/ PGTIPSETIPINRKRGNTP*LIL*G QHHPDTKA
7486	37854	A	7540	I	404	MDEFLNTYTLPRLNQEEVESLN RPITGSEIVAVIINSLPRKKSPGP GFTAEFYQRYKEELVPFLLKLF QSIEKEGILPNSFYEASIILIPKPG RDTTIKENFRPISLMNIADAKILN KILANRIQQHIKKLIHHHDQVGFI PGMQGWFNIRKSINVQHINRT KDKNHMIISTDAEKAFDKIQQP FMLKTLKKFGIDGTYLKIRKYL GIQLTRDVKDLFKENYKPLLNE IKEDETKKKWNIPCSWVGRINIM KMAILPKVIYRFNAIPIKLPMTF LTELEKTTLKFIVNQKRARIAK SILSQKNKAGGITLPDFKLYYK ATVTKTAWYWYQKRDIHQWN TTEPSEITPHIYNHLIFDKPEKNK QWGKDSLNFNKWCWENWLAIW RKLKLDPLTPYTKINSRWIKD LNVRPKTIKTLEENLGITIQDIG MGKDFMSKTPKAMATKAKIDK WDLIKLKSFCATAKETTIRVNQR PTKWEKIFTTYSSDKGLISRIYN ELKQIYKKKSDNPPIKKWVKDM NRHFSKEDIYAAKKHMKKCSP SLAIREMQIKTTMRYHLLTPPSLL IPRQTGSGVDLQQPTDQLQLKV LTIVRRKTNQKVPHQNPICTS PSSKTKELEKQEQTSHSKASRRQ EITKIRAELEIETQKNLQKINES RSWFLEKVNKIDRLLARLIK REKDQIDA KNDKGDI TTDPTEI QATIREHYKHYANKLENLEE

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7487	37855	A	7541	3	1284	SAADTQANRVWSVPPTNSNRP AAEGPDC*KEN*QKGHPHQNPI CQSPSSK\PKVDKTTKMGKKQN RKTGNSKNQSTSPPPQEHSSSPA MEQRITNAEKYLKDLMEALKTT AQELHDECTSLSSPFDQLEERV SVMEDQMNEMKREEKFREKRI KRNEQLSKIEIWVDYVKRPNLPLI GVPESDRENGNKLENTLQDIIQ ENFPNLARHANIQIQEIQRMPQ RYSSKRATPRYIIVRFTKVEMK EKMLRAARDKSLVTHKGKLIR LTAGKFIALIAHKGNQRSKIDT LTSQLKELEKQEQTTHSKPSRRQ EITKIRAELEKEIETQTTLQKINES RSWFFEKINKIDRLLARLIKKKR EKNQIDAIAKNDKGDIITDPTEIQ TTIREYYKHHYANKLENLKEM NKFLDTYTLPRLKQEEVESLNR PIKALKLRQ
7488	37856	A	7542	1	1082	MLSSVGLLLTHRKKKSTDIN DESLNKERDMTGNPHIFPRYQE IWQVFVSSGNNYITTATGPTAV PPLIPRQTGSGVDLQQPTDLQ LRLLTGGRKTNKQKGHPHQNPI CTSPSSKTKIERTTIREYYKHY ANKLENLEEMDKF/H*HIHPPKT KPGRS*ISA*TNNRL*N*GNN** LTNQKKSRTTRWIHSRILPEVQG GADKQRAKHE*TPIHNCFKENK IPRNPTYKEHEGPLQGELQTTS QGNKRGYKQM/DRTFHAHG*E ESIS*KWPYCP**FIDSPSPSSYQ *LSSQN\GKNYFKVHMEPKKSP YCQVNPKPKEQSWRHAT*LQ TILQGYSNQNSMVLVPKQRYRP MEQSPQK
7489	37857	A	7543	1	2012	MNLSRHLNEVKGELLWSLEWR DPDGGSIRMEVGLGGWTQRL EEKKGNCVSHGNLEKDFPYIPH LFGLQQKKMDLKGVFKSCFKI YCSSKHLLKTGFISEAVLCYGE GGEGDTVLTMKERWPHECIVLI QCNKGRLTPTHARYSSETKLPE ERSGSSICGSPISAVLQQPLLIPR QTGSGVDLQQPTNLQLRVLT VRKTNKQKGHPHQKPICMSPS SKTKDFKPTKIKRDKEGHYIMV KGSIQQEELTILNIY

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7490	37858	A	7544	402	675	QGYPGTELSSAPSGPNRHLQNF PPQINRIYILLSTTSHLFQN*PHS WK*STPQQM*KRRNYNKNQ\L ELRIKKQTQNRSTTWKLNNLLL NDY
7491	37859	A	7545	21	428	DKTSRGTIQQHLLFTNIRCSAA SAADTQANRVWSGPPANSDRP AAEGPDC*KEN*QTERTSTPKS HLYVTIJKDQRNKIPKNPTYKG CEGPLQGELQTTAQQNKRKYK QMQEHSMLMGRKNQYHENGH TAQGNL
7492	37860	B	7546	I	1650	
7493	37861	A	7547	I	946	MAMPPLLIPRQTGSGVDHQQTPT TDPQLRILTVRRKTNTQKGPH QNPNCCTSPSSKTKELKEEVGTQ RKEVKNLEKRLDEWLTRIANA EKSLKDLMQLKTMAQELQLDK TTLNFIWNQKRACIAKTISSKK NKAGGIRLPDFLYYKATVTKT AWYWHQNRYIDQWNRTEASEI MPHIYNHLIFDKPDKKQWGN DSL/K*MVLGKLASHMQKTEI GPLPYNFYKN*LKMD*RLKGK T*NHRNHRRPKQYHSGHRHG QRLHD*NTKSNGNKGQN*QMG SN*TKEll/RQQKKLPSE*TRNL QNGRKFVQSIYLTKG
7494	37862	A	7548	189	380	QTERTSTQNPICHTSPSSKTKGR* NHKDGEKTEQKNWKL*KAERL SSSKGMQLLSSNGTKLDGE
7495	37863	C	7549	I	2805	
7496	37864	A	7550	535	696	
7497	37865	A	7551	214	363	LLEGKLTNRKE*HQHQQKGHP HQNPICHTSPSSKTKVT*NHKDG EKT*QKS
7498	37866	A	7552	787	1056	GQKKKLMIIIGINSRNHHGPQ*P ALQKMPAS*VTEIMNNHFLFCF RKGKGRIKLVNSRVEHQAGSW GPWFQSLVAGQYFWTCSPGDG SPLP

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7499	37867	A	7553	1	4560	MKHTLIPRIKNACLQMSSLAVPVNSLVCLGKILEYLDKWLVLDGILPFLQQIPSKEAVLMGILGIYKCTFTHKLGITKEQLTGKVLPHLIPLSIENNLNQFNSFISIIKEMLNRLSEHKTKEQLHIMQEQQKSLDIGNQMVNSEETKVTNIGNQQIDKVFSHIGADLLTGSDENKEDGALNVPPAGAKPTQQRPTDMSALNNLFGPQPKPKVSMNQLSQQKPNQWLNQFVPPQVSPATGSSVMGTQMMNMIGQ
7500	37868	C	7554	1	1359	
7501	37869	A	7555	272	915	YPGKQGLEWTSSKLQQTCC*GS*LLEGKRTNRKDINTKNPSVRHHHQRPKMGEKTEQKNRKLKIRAPLLLQRNTAPH/HAMEQSWMENDFDELREGFRRSNYSSELKEEVRTNAKEVKNFEEKLDEWITRITNAEKSLSKDLMELKTTA\ENYVTNAQAPVANATN*KKGYQRWTKT*MK*SEKRSLEKKE*KEKKQSLQEIWDYVKRPNLCLIGVP
7502	37870	A	7556	196	494	HTDGVSVWMSFLFVSPNSQDPQLQVCWSLLEVHSRPCLPGYQQQRIRLEPKINV/T*ADHEAYRKTAVRRCSQTQQAWEQSAHQQHIRH*SCRYPG
7503	37871	B	7557	28	303	
7504	37872	A	7558	1216	1863	HPDITIKRTREARANTFKS*QKARRN*DERRTEGNRDTKNPSKKSVN/RRSWFFEKFNFNIDRRLARLIKKKREKNQIDA\KNDKRDTTDPTEIQT\IREHYKHLYANKLENLEEMDKFLDTYTLPRLNQEEVESLNRPITGSEIEAIINSLPTKKSPGPDGLTAKFYQRYKEE/PGTIPS ETIPINRKRGNPP*LIL*GLHHPDTKAWQRHYKKREF
7505	37873	A	7559	166	785	FRATSAADTQANRVWSGPPANSNRSAAEVDPC*KEN*PT\KGHPHQNPICTPSSKTKARQANIQIQEIQRMPQRYSRRATPRCIIVRFTKVEMKEKMLRAAREKGQVTHKGNPIRLTADLLVKT\QARREWGPIFN\KEKNFQPRISYPAKLSFISEGEIKSFTDKQMLRDFGTTRPALKELLKEALNMERNNNQYQPLQKHVRL
7506	37874	A	7560	1	1164	

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7507	37875	A	7561	770	2670	RRARCSCAPSSTTLGRTGPSLA RRRACPSSAGRSWRW*ARTTPR GGRPSESGPTFEPASSPPRGSR RDFQEGQSWVRGWQL/WTSTV GCSPHIFWCVDCECDCEGYLK GHYVAGLRRSFRLGCRERLGGS QEKGKMSGAESPELLTYEEVAR YQHQPGERPRLVVLIGSLGARL HELKQKVVAENPQHFGVAVPR APWDVKLQWAEDPGSECDKE DEEEENEGARFLEHGEYKENLY GTSLEAIQAVMAKNKVCLVDV EPEALKQLTSEFKPYIIFVKPAI QEKRKTTPMSPACEDTAAPFDE QQQEMAASAASFIDRHYGHLD AVLVKEDLQGAYSQQLKVVLEK LSKDTHWPPLVIPRQTGSGVDL QQPTDQLQLRVLTVRRKTKQ KGHPHQNPCTSPSSKTKVGER VSVIEDQMKEMKREKKFREKR VKRNEQSLQEIWVDYVKRPNLR LIGVPESDGENGTKLENTLQDI MRENFPNRARQANIQIQEIQRM PQRYSSRRATPRHIIIRFTKVEM KEKMLRAAREKGWVTHKGKPI RLTADLLAETLQARREWEPIFNI LKGKNFQPRISYPAKLNFISEGE IKSFTDKQMLRDFVITRPALQEL LKEALNLERNNWYQPLQKHAK
7508	37876	A	7562	181	690	QHAIVTGDAVGMDIPQEARN YRHNNQAYAYSIQGDGAEDDDE RIVRFHTRCLNGRVLL*DK/IFQ RNDQAATFAAHQYPLFCSLHC* YPGTQGLEWTSSKHQQTC*GS *LLWPGDERLWPSWEEQKKLS LPTDPDTWL*GSPQAAQGPVC PPPGAQPLSSVTASLCHCA

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7509	37877	A	7563	2	2233	SSENILTVHEQANVESLKETKQ NCKDLDEDANGITDEGKEINEK SSQKLNLSELQDTSLQHDDEEE STVISVSEDMNSEGNGVD FECDT KLYTFLSSDESQQSENNEED TLCFVENSGQRESLSGTGSLS CDNALFVIDTPGMSADKNFYL EEEDKASEVAIEEEEKEEEEDEKS EEDSSDHDENEDEFSDDEEDFLN STKA LGRLTPH MAGY SSETKL PEERPGSNICCSPIASVLQPPLLI PRQTGSGVDLQQTPTDLQLRVL TVIKKTNKQKGPHQNPCTSP SS KTKDRSTRQKVNKDIQELNS ALHQADLIDLYRTLHPKSTEYTF FAAPHC TYSKIDHIVGSKALLS KCKRTEIITNCLLDHSAIKLELRI KKFTQNCSTTWKLNNNNNDY WAHNEIAEIKMFFETNENKDT TYQNFWDTFKAVCRGKFIALN AHKRKQERSKIDTSQLKELE KQEQT HS KASRRQEITKITAEL KEIETQKTLQKINESRSWFFEKI NKIETASKTNKKREKNPIDAIK NDKGDITTNPTEIQT TIREYYKH LYANKLENLEMNKFLDTNTIP RLNQEEVESLNRPITGSEIEAIIN SLPTKKSPGP HGFTARFYQEYK EE/PGTIPSETIPINRKGNPP*LI L*GQHHPDTKA WQRHNKKREF *TNIPDDHQCKNPQ*NTGKPNP AAHQEA YPP*SSGLHPWDARL
7510	37878	A	7564	3	377	DHNCATV LQPG*QSEJL*KEERE REREKKERK KERK KERK KERK KEGKQ*RKGGRK KERKEKEIK KERRKGKKEK KEE EKRRKERK KERERK RR KER GRK KEYTRKA KRIHRPFEGNGSPLPAP
7511	37879	B	7565	1	834	
7512	37880	B	7566	1	915	
7513	37881	B	7567	1	666	
7514	37882	A	7568	330	793	SCWLCPGP CCPAQPQNTAPFIPE A*TPAMAERGPATAAGQLEFT GGALQTLFAWVSAAAAAEQWI LVNRKCCCLIVPLEVLSQRSTW PCIGLVMPVLPGLLRDIVHSDSI ASHYGVLLALYALMQFLCAPV LGALSDRFRRPGLLASLLGAT

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7515	37883	A	7569	991	1842	IQCHPHQATKNFLHRIGKNYFK VHMEPKKGPHCQVNPKPKEQS WRYVKQSKKIAVYAEERSRCSP GTEFAGTLILDFPSSRTAPSSRG R/P/GRLTRPGTPLRQSFQRNDQ AATFAVQQYSLFCSLCC*YPGK QGLEWTSSKLQQ/YLQLRERSS SPATEQSWMENDFDELREGFR RSNYSKLKEEVQTHCKEAKNL EKRLDEWITRITNVEKSLNDLM ELKNMAKERDERTSFSSEFNQ LEERVSVIENQMNEMKREEKFR EKRVKRNEQSLQEIWVDYVKRP
7516	37884	B	7570	1	2448	
7517	37885	B	7571	2379	4476	
7518	37886	A	7572	1	570	
7519	37887	A	7573	1	1404	
7520	37888	A	7574	1	474	
7521	37889	A	7575	746	1215	PNINRFLKYHYREPVPKKRERNY STLWPLCPSTLNKIYTIMSYLSP ATKEYPFFLLLEQEC*AE*LLA LAWSQPLLSSTTNCLKN*MVTW NGSLIPWSPCKINLTP*/PAVVL QNRRALDLTAESGGTFLFLEE KCCCCYVNQSGIITEKVKEIQGRI
7522	37890	A	7576	1	1178	MPESPTPLLGDRDILAKAGAIHL NIGEGTPVCCPLLKEGINPEVW ATEGQYGRAKNAHPVQVVKL DSASFPYQRQYPLRPEAQGGLQ KIVKDLKVQGLVKTCNSPCDTP ILGVQKPNQWRLVQDLRIIDE AIVPLYPAVPNPYTLLSQIPEEA ELFTVLDLKDAFFCIPVHPESQF LFAFEDPSIPMSQLTWTVLPQG FRDSPHLFHHTLAQDLSQFSYL DTLVLCPLRNQQECHQATQV LLNVLATCGYKVSKQKAQLCS QQVKYLGVKLSKGTRAL/QQ*R TDRT*LSTSNCNSNLRHSRGPSRG SLD*SQPQLVY*WKFFCRKRTS KRGVCSGQ**WNT*KKSPHSRN *CSAGGTNSPPSGTRIRRKGL IRIYMLPLILSAPYDHLL
7523	37891	A	7577	1	1338	
7524	37892	C	7578	109	231	
7525	37893	A	7579	279	346	LLRLALLLQ*QKEEWVLFCCGA
7526	37894	A	7580	260	393	VEVVILPMPVPNLPSIPARITKG RMGTLLLRLGLGTT*LYKSCSV

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7527	37895	A	7581	3	2677	TKETCFIRGPKTPVPVTDWEGS LPLVFNHCRDTSVIIHPRFKGVR PRRDACLGPSPLAASPAFLGKG QAEGLPNSSSASAPPPYNLFIAS PPHTWSGLQFRSVTSPPPPAQQE TLKKVAGAKGIVKRLKTDAR SPWKTPRPSRTPSFRKAERTKG LLKIHLTKLSHQLKKDWTLTLLP LSLLRIQACPRNATRLATGQLG YPFISQS\YVLVNGFQTVEDLCE AADLRVSADLRVS\TALKVA RLELFVPPGGLVVSLASAVKLQ TFAVLQLIKA\KRWDWGTL\EQG AALIGEARDAQEPTEGVGGSG MAGCRSRDLPRGKA\KARREI ERSAGLT\KKERCIRNGYSKEK MKLIVVSHGLHVNDLQHKLTL FTKETYTYLARDSEKQKQGYL AGLEGAHANRVNQQISDNLVV KTGALPPP\YRTKGEKLYFYMSR QNCLFSVSGQLLQGFFPNGQA APNPYALLSQIPEEA\EWFTVLD LKDDFFCIP/VHPDSQFFF\AFEDP SNPTSQLTVLPQGFR\HLFG QALAQDLSQFSYLDTLVLCGVL KSPIIIVWELNQIDTIKNDKGDT TDPTE\QTTIREYYKHLYTNKLE NLEEMDKFLNTYTL\PRLNQEEV ESLNRPITGAIEAIINS\PTKKS PGPDGFTA\EFYQRVADV\KLREE KDENMLLVPLSDLLYQVHAPI QLPEVLAANSPTCHLDPP\TITES
7528	37896	A	7582	1	459	MA\VRYTDENVLRKGTREAGT MMRLRGITTECCCADFAAWDVT HDALRATGGELPGAQVMLTTT ECGRHVDFCDRAVWLPRMWG YPLALPGEMRKLYTVRMAGRDI ILAKAGAI\HNLIGEGTPVRCPL L/EGINPEVWKTEGQYRQAKNA RPVQVKL

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7529	37897	A	7583	3	910	YFSQPLSY\DWGALFFSHAFLIM LESPTTLLGRDILAKAGAIHLNI GEGTPVCCPPLLEEGINPEVWAT EGQYGRAKNARPVQVQLKDS ASFPLYQRQYPLRPEA/LTKGFQ KIVKDLKAQGLVKPCNSPCSTPI LGVQKPNQWRLVQDLRIIDE AIVPLYPAVPNPYTLLSQIPEEA ELFTVLDLKDAFFCIPVHPESQF LFAFEDPSIPMSQLTWTVLPQG FRDSPHLFHHTLAQDLSQFSYL DTLVLCPLRNQQECHQATQV LLNVLATCGYKVSKQKAQLCS QQVKYLGVKLSKGTRAL
7530	37898	A	7584	158	1272	NPAARTPFFVIKKGGKRGDIL AKAGAIHLNIG/GTPVCCPPLLE EGINLEDWATEGQYGRAKNAR PVQVQLKDSASFPHQRQYPLRP EAQQGLQKIKDLKAQGLVKAC NSPYNNPTLGVQKPSGQWRLV QDLRIINEVTVPVLAVPNPYIL LSQIPEEAEWFTDSDLKDAFFCI PVHPDSQFLAFEDPSNPMYSQL TWTVSPQGFRDSPHLFGQALA QDLSRFSYLGTLVLWPCISI/LCT *TMEQLQHRNKHHFRFSRTSCF QSGNNPYLKP\HLCKI*QYCRHN QLPMHQCPHDHLH*TRFI/PIML YLSPTTKEYSFFLLLSEQEC*VD *VLALAVPQPPLSSTTNYLKNS MVTWNGLPTPWSPCKINLTS

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7531	37899	A	7585	1	2083	MPLLQMIATPLQQSLISTEDEM DELTEVGFERWVITNFTEEPSPA LGFTPEHKGNVGHAGKGPLESS SPDPFLCGQEKKQEKAGGLLHRQ YPLRLEAKQGLKKIVKDLKAQ GLVTPCSSPCNTPTLAQVKPNG QWRLVQDLRIINEAVVPLYPAV PNPYILLSQIPEEEAEWFTVLSDLK DAFFCIPVHPDSQFLFAFEDPSN PMSQLTWTVLPQGFRDSLHLFG QALAQDLSQFSYLDTLVLQYM DDLLLVTHSETLCHQATQALFN FLATCGYMSKPKAQLCSQQ/R YLGKLSKGTRALSEEHIQPILA YPHPKTLKQLRGFLGVIGFCRK WIPRYGEIARSLNTLIKETQKAN THLVRWTTEVEVAFQALTQAP VLSLPTGQDFCSYVTEKTGIAL GVLTQIRGMSLQPVAHLTKEID VVAKG*PHCLRVVVAVAVLVS EAVKIIQGRDLTVWTSHDVNGI LTAKGDLWLSDNCLLCQCALL LEGPVRLCTCATLNPATFLPD NEEKIHNCQQVISQTYATRGD LLEVPLTDPLNLYTDGSSFVE KGLRKVGYAVVSDNGILESNPL TPGTSQAQLAEIALTWAELGE EKRANI/YTDSKYAYLVLHAHA AIWKEREFLTSERTPIKHQEAIR KLLAVQKPREVAVLHCRGHH KGKEREIQENCQA YIEAKRAAR
7532	37900	A	7586	80	678	LCCNMMPAAQHRERASNESRHG GCCPP/PWLLSS/APPHDAFTTPQ EA VLSAPSALPSSAAT SLLSLLT PQQMFCSKTAGPKPFSSNPHPR LKAPTSSC/PL*PQAAPSGNAHC Y*GHRRGRTVPEDPGCLSPRAR PHRTSGTSSPPSLQPSRTIPPASS APKQGDAGSPPYQAVPEKNKP GATPRTCAESP KRLPRPGPKSFL

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7533	37901	A	7587	3	804	GLLQATALQPAQQI*IFL*KKEE EEEAGGGEGEEKKKKKKTEEE EEEEERKK\EEEEGEEE EEEKEERTGAGDSSEDEGFDEI PSPGDSRQKTEGNAANIISGCD QRYESEMDLGTRGIVSGHRYI FTFRVSPLEAIGELLFPFSVAPA QGGLGFRRVDQLALPMGAQSL ERPFCVDGGSRPPLNYAVSSVE DLLNGNNFKCPTTLRTIEITVGN LIISPRQKQLNANIGKNFNAEEN HENAKTTTRSSTVGADTHLTA
7534	37902	A	7588	3	191	SSHPVFSPRWVLSPHPQSQCYT* GSGAQNLTASPPFCVCRGDRGN HLRKDTKVEVKRKTcwL
7535	37903	A	7589	1	1899	HVGASDPDAGPGWGGLTSRPR LVTPRSAPRGRAFQGATVGLAP VEGMCRAESSGGVSTDHSELPI GAAATMAHEIGHSLGLSHDPD GCCVEAAAESGGCVMAAAT/G VRGWGVGAAAGRLVLTSSA AFLWSSLFLCKMGIMIIVSAS GWFMRKKGKKLRQSGFSTV*R LFSE*PGEVTPTPGGAPSQRDST LGPGLLTIGASSSPVPLVV*LCA GYFPSLGSARLAAVAKPRGGD QRSAGVGGLSLHAQCPPRAGR HPFPRVFSACSRQLRAFFRKG GGACLSNAPDPGLPVPPALCGN GFVEAGEECYCVSIGQECDL CFAHNCSLRPGAQCAHGDCCV RCLLPAGALCRQAMGDCDLP EFCTGTSSHCPDVYLLDGSPC ARGSGYCWGDGACPTLEQQCQQ LWPGSHPAPEACFQVVNSAG DAHGNCGQDSEGHFLPCAGR ALCGKLQCQGGKPSLLAPHMV PVDSTVHLDGQEVTCRGALAL PSAQLDLLGLLVEPGTQCGPR MVCNSNHNCAPGWAPPFC KPGFGGSMDSGPVQAENHDTF LLAMLLSVLLPLLPAGLAWC CYRLPG AHLQRCSWGRQGPG VQWPQRWPTQGPPPGRSPHG VGPHSHWTALAPGP
7536	37904	A	7590	2	280	
7537	37905	A	7591	1	1266	

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7538	37906	A	7592	1	458	LQQSQIFEIHSQKTIVKKCLDLF FELAEEKENYKNFFEAFSKNL\K LGIHEDSTNRRRLSELLRYHTS QSGDEMTSLSEYVSRMKETQK SIYYITGSPCWCLVFFSLSCPCV EGSKLRVSSPIPSLLLTAQLDVV YCGLFYFLHFVLKLKYAK
7539	37907	A	7593	1	862	
7540	37908	A	7594	3	437	IPEF/LNF/IRGVVTLGLPLNISRE MLQQSKILKVIRKNIV*EC/LFEL LSELAEDKENYKKFYEAFSKNL KLGIHEDSTNRRRLSELLRYHT SQSGDEMTSLSEYVSRMKETQ KSIYYITGESKEQVANSAFVER VPLSHLAPPAGV
7541	37909	B	7595	106	1966	
7542	37910	A	7596	453	719	ARGSKHTGLIAQWAHEQSGHG GRAGGYAWAQHQHGLPLTKAD LPAMAMATAECPICQQQRPTLSPR YGTIPW/WAWDAPGGRGCWRL QKAGE
7543	37911	A	7597	3	837	PECVIGIDILSSWQNPHIGSLTG RVRAIMVGKAKWKPLELPLPR KIVNQKQYHILGGTVEISATIKD LKDTTEAVTPTTSPFNSPIWPVQ KTDGSWRMTVDYCKLNQVVT PIAAAVPDV/VSLLEQINTSPGT WFEWSPK\KALQQVQAAVQAA LPFGPYDPADPMVLEVSVADR DAIWSLWNAAIGESQRRPLGF WSKALLSSADNYSPFERQLLAS YWALVETERLTVGHQVTLRPE LPIMNWVLSDPSSHKVSGAQQ RSIIKLKWYIHDWVRAGPEGT
7544	37912	A	7598	1	399	
7545	37913	A	7599	126	392	ARGSKHTGLIAQWAHEQSGHG GRAGGYAWAQHQHGLPLTKAD LPAMAMATAECPICQQQRPTLSPR YGTIPW/WAWDAPGGRGCWRL QKAGE
7546	37914	A	7600	1	1677	
7547	37915	C	7601	37	465	
7548	37916	B	7602	1805	2542	

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7549	37917	A	7603	3	865	VIPTTSQFNFPIWVQKTDGSWRMTDYCKLNQEENFNNQVDRMTHSVDTTQPLSPATHVITQWAHEQSGHGGRDGGYTRVQQHGLPLTKADLATAGKVVFQKAV*ALN*HSIYGTLSIARIHRSRNQGV EVEVAPLTISPSDPPAKFLLPVPPTLRSAGLEFLVPEEGMLPSGDTTVPLNWKLRLPPGHFGLLFPLHQQANKGRSPHSRERGTSVFASSNSQPVTALNNEPAGPNKRDI GKAKGKLFHHPGPHRQERDMLE/SML*PWGYPGVKQWNHLIK KQGRH
7550	37918	A	7604	3	857	VTASLSPVVATSPQQPMLPSDFPPLSEEINPMLPEATVIASPKEIARQDNVDSPQEPPPTPQFSSRPITRLKSQWAPRGPECVIGIDILSSWQNPHIGSLTGRVREGYMGKA KWKPYLEPLPRKIVNQKQYCIPGEIAEISTTIIRDLKDTGVVIPPTS PFNSSIWPVQKTDGSWRMTVDYCKLDQVVTPIAAAVPDMVSLVKQINTSPGTWQHITHLDVLLWRIYQVTQKAASF EWGPEQEKA LQQVQAAVQA\LCHLGHMTQQIQWLRRNGEMCDYILIYGL
7551	37919	A	7605	1	608	MAPGMVPIPPPQKYHSPKKLIYSTPPKPGTYGISDSLSQLYPTSAKAEPVPTHKNPRRESPIPHSSPSSFTDG/PSPNSPGDARPHPQNKTSRGGRPAPRQRVPTTITTPAPPARS PNSAHSPAFRDLPFRAEKGTAAARVPREPHSPAPPKNKGSLQPPAGELLQRGARTTLPRILGTAPGPHLPGCSAPPGAP*RPAAPIGL
7552	37920	A	7606	179	544	HTRLHSHPQLRGFPSWLHSVSI RSPASGHLEFPSFARSSGSGSTSPLSFGAMTTEKQALGGRAAFPP KYK*AQGRAACFVLTSQQQPSWQ*GVTVTATGSPMHRGTFWH SCTGTPGSGDR
7553	37921	A	7607	90	653	VPGERPRGQSGPQVLPYGPWC SSNTPEPQSLRAPQ*LQVPVPLQSRGQR*QPQPMP/VRSQPKAP*V QMPPTPSSAKGPHLDGVRVPAANPE*PTAGPTRAAILRATPAPS LPMPGTNRPSRGNSLQDSAPA SDAGWPPTEAVTCP\PWSRENP PQRNL*AHRPQGPRPVPGTERRNGRGAGCQL

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7554	37922	A	7608	1	804	
7555	37923	A	7609	28	682	TTCEMSDLEDDETPQLSAHG/T LAALQEFYAEQQKQQIEPGEDDK YNIGIIENWQLS\QFWYSQETA LQLAQEAIAAVGEGGRIACVGS P*CLPET/HESCAEKTFSIYIFEY DKRFAME*K\IIFYDYNNPLD LPERIAAHSDIV\ADPPPYLSG\ ECLRKTSETVQV\LTRGKILL\CT GAHHGRTGSRTPLE*RCARLFP RHTRNGKWSFRLVYVNL
7556	37924	A	7610	1	611	MAPKAKMEAPAPPEAEAKVKA LKAKKVVVLKGVHSH/KKKKKI RTSPTFR*/PLRLRRQPKYPWES VPRRTSTQISSGERPLENKQPRY PRESSPPPGEQAPKYPPEERSPG ETRLDHLCISIKFP\LT*VLP KKIEDNNNTL\PLVNVKANKH\ QIKQAVKKLYD\DVAKVNTL\I RPDGEKNGICSDLAP\DYDALG CLPTKFGII
7557	37925	A	7611	1	1035	DKDSLCDSCKTSCSYNCSPRS SWQDQDISSGTGLHSR\TLANT GKESKTVQASLDQQLGRLLSVS LRLGVEPSLQSSGNLLVSLLSR FITYKVTIVEWVKTYALGLDLK KSERPGFESELHSHNSCECAVS HLKPVHLRVSPMGHSEYYLVT TADYSEANGSQSAGDEFFQTQS FPSRQQALFRPKIQITIREYYKH LYANKLENLEEMDKFLNTCTL QRLNQEEVESLNRPITGSEIEAI NSLPTKKRPGPDGFTAKFNQRY KEELVIYKKFQIPCIVPELNSTIS ANSTNADTCTPKYVTFNSKGT AQNAQADSDSAGLE/CEPDVLHI** SLRLGVEPSLQSSGNLLVSLLS RFITYKVTIVEWVKTYALGLDL KKSERPGFESELHSHNSCECAV SHLKPVHLRVSPMGHSEYYLV TTADYSEANGSQSAGDEFFQTQ SFPSRQQALFRPKIQITIREYYK HLYANKLENLEEMDKFLNTCT LQRQNQEEVESLNRPITGSEIEAI NSLPTKKRPGPDGFTAKFNQR YKEELVIYKKFQIPCIVPELNSTI SANSTNADTCTPKYVTFNSKGT AQNAQADSDSAGLEWSLMFCISD KVSGDDDADAVDS

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7558	37926	A	7612	3	573	KEETFSAWYVDGRVLVVIVTF GIIPLCLLKNLGYLG\YTSGFSL SCMVFFLIVVIYKKFQIPCIVPEL NSTISANSTNADTCTPKYVTFN SKTVYALPTIAFAFVCHPSVLPI YSELKDPSQKKMQMVSnisFF AMFVMYFLTAIFGYLTFYDNW QSDLLHKYQSKDDILILTVRLA VIVAVILTVPV
7559	37927	A	7613	1	831	MSELEDRLFENTQSEESKGKRI KKNEVCLQDLKYSKSLKRANLRD TGLKEEVIVKKFQIPCIVPELNS TISANSTNADTCTPKYVTFNSK KKMQMVSnisFFAMFVMYFLT AIFGYLTFYDNVQSDLLHKYQS KDDILILTVRЛАVIVAVILTVPV LFFTVRSSLFELGLRKQRFNWL PSIPVVTCILLVVINLVGDLHTP P*RIFFGVVGSYILLNMLIFILP/S IFFILKITDQDGDKGTQRIWAAL FLGLGVLFSLVSIPLVIYDWACS SSSDEGH
7560	37928	A	7614	1	1118	FNCEIFYSP/SYGDEEISKTFALN ERGEIKIIRKLDFEKIVSYQVDI KASDGAGLSKCTVIIQVVDIN DNAPELTMASFTSPIRENSPETV AALFSIQDRDS\FALRSLDYEAL QEFERVGASDPGF\PALSSEVAL VRVL\WLDANDSSLFVLFPLQN GSAPCTELIPGRAAEPGYLVTK QLLKATEPGLFGVWAHNGEVR TARLLSERDATKHRLVVVLVKD NGEPPRSATATLHVLLVDGFSQ PYLPLPEAAPAQAAEADLLTV YLVVALASVSSLFLLSVLLFVA VRLCRRSRAASVGRCSPPEGPF PGHLVDVSDRTLSQRKYEVF LTRGSGTNEFKFLKSVIP/QASG RCE*WEEKSNFVNGFGFN
7561	37929	A	7615	1	764	TRPGAHGASLTDLANLSEGVSL AERGSFGAMDDPFKNKALLFS NNTQELHPDPFQTEDPDFKSDPF KGADPDFKGDPFQNDPFAEQQTT STDPDFGGDPFKESDPFRGSATD DFFKKQTKNDPFTSDPFTKNPS LPSKLDPFESSDPFSSSVSSKGS DPFGTLDPDFGSGSFNSAEGFAD FSQMS/KGKSTPVSQSQLGSADFPE APDPFQPLGADSGDPFQSKKGF GDPFSGKDPFPVPSSAAKPSKAS ASGFADFTSVS

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7562	37930	A	7616	1	817	MGFCHVGQASLKLLASDPFGT LDPFGSGSFNSAEGFADFSQMS KTDPQVRSELLK\GTAARLVTR LDPLVSGPHTR*PELTVALVPD SCRASPDAGSVGAHL*GLGTT GAADGGTPNSNRSFVLGVIIIVV WSMCQLYLVPPPPSGPFTSSLG GAGFSDDPFKSKQDTPALPPKK PAPPRPKPPS/GHRLPVPDGGGP GPPCSP/DPE*QQMPWDPVWGA RGSPRPSCPGPRKCRMCSVPRV IQHPSLLLPSLVGRRSQPQIWRS HPMPAAPPS
7563	37931	A	7617	3	1039	GSLMFQQVPMVEIDGMKLVQT RAILNYIASKYNLYGKDIKERA LYAMTHDDEAELRTPAACAKL *SECQFRTRVDAVRTMMIP/AFT QLKSHRQDYLVGNKLSWADI HLVELFYYVEELDSSLISSFPLL KVKLLASSVKPVPLPSALRWPA HAVAQNIVTSWLTGGRFIELKT VQILDRLLEKPCIDAEDECFNT EWSTEFTLLKAWDEYLKAWFA LHLLEAMFQPSDSGKSFIFNMS VGYNLEGQPLNPKNYPSQGVP RVLKSHRQDYLVGNKLSWADI HLVELFYYVEELDSSLISSFPLL KPHTHVDNTKGSHPHMCAYT DYVNNPNDRMMPQREITFVS
7564	37932	A	7618	2	698	NQKTVTMAGKPKLHYFNGRGR MEPIRWLLAAAGVEFEEKFIGS AEDLGKLRNDGSLMFQQVPMV EIDGMKLVQTRAILNYIASKYN LYGKDIKERALIDMYTEGMAD LNEMILLPLCPAEEKDAKIALI KEKIKSRYFP\AFEKVLQSHGQD YLVGNKLSRADISL\VELLYYV EELDSSLISNFP\LLKALKTQNP ATLPHG*RSFLQP\GSPRKPPAD AKALEEARKIFRF
7565	37933	A	7619	102	825	RNLQETAIMAEKPKLHYFNAR GRME\PPRWLLAAAGVEFEEKF IKSAEDLDKLRNDGYLMFQQV PMVEIDGMKLVQTKAILNLHLP ANYNLLMGKDIKGREP*FDYVF *EGFSQILGLN*SSFLPVC\PP\n KDAQALPLIQEKTKNRYFPFAE KVLKSHG\QDYLVGPTSLRGW TFIWWELLYYVEGAWTPRLISS FPLLKALKTRISNLPTVKKFLQP GSPRKPPMDEKSLEEARKIFRF

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7566	37934	A	7620	2	1256	CHCGPP/VKVEAYGSQVLKGVL AQVQLTVGPVGPRTHPVVIFPV PECIIGIDMLSSRQNPHGSLTG RVWTIMVRKAKWKPLELPLPR KIVNQKQYHIPEGIVEISATIKD LKDAGVVIPTTSPFNNSPIWPVQK TDGSWRMTVGYCKLNQVVTPI AAAAPDVSVSLLEQINTPPGTWY AAIDLANDFFPIPVHKAHQKQF AFRWQGRQYTFTVLPQGRWEI NMTKIQGPSTSVKFLGVQWC ACQDIPSJVVKDKLLHLVPPTTK K/EAQCLSGFRREHIPHL\PIYRV SRKAANFEWSPEQEKAHQVQ AAVQAAWPLGPYDPADPMVLE VSVADRDADWSCWQASI/GHK VGHAQQHSIIKWYWIRDWAR ADPEGTTKGQGQRWWQLAE RQDSRDREAAIGERQETAVGKT ARDGEAVCD
7567	37935	A	7621	1	518	MTVDYCKLNQVVIPIAAVSD VVSLLEQINTSPGTWYAAIDL NAFFSIPVHKAQQKQFAFSWQG QQYTFTVLPQWYINSPALCHNL IRRDLDCFSLPLDITLVHYIDDI MLIGSTIKWVWHSS/DSIIKW YVHDWARAGPEGTTNGLAG*S GTCKKHEWKTGDKGIRGRG
7568	37936	A	7622	1	696	
7569	37937	B	7623	1	1014	
7570	37938	B	7624	1	837	

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7571	37939	A	7625	1	2592	MVRKAKWKPLQLPLPRKIVNQ KQHRIPGGTVEISAITKDLKDA GVIPIITSPFNSPIWSVQKTDGC WRMTVDYCKLTQVMTPIAAV VPDVVSLLQINTYPGTCK\FLG VQWCGACRDI/PSKVVKDKLLHL APPTTKKEAQHLVGLFGFWRE HIPHLGVLLQPMYQVTRKAASF EWGLEQEKAHQVQAAVQAA LPFGPYDSADPTVLEMSVADRV AVWSLWQAPIGESQWRPLGLW SKALPFSADNYSPFERRLLACY WALMETEGLTMGHQVTMQPE LPIMNWVLSDPSRHKVGHAQQ HSIILKWKWYICDQARAVPEGTC* LNKEVAQMP/MGTTRKWTAA ALQSLSGISLKDSGEGKSSQWT ELQAVHLVVHFAWKEKWPGT WKKHDWKTGDNIEWGRGIWM DCSEWSKTVKIFVSHAHEPSGH GGRDGGYAWAQEHELSFTKAD LATGIVECPICQQQRPTLSPRYG TIPQQQTILTGTINTYSIYGFAYP AHNASAKITIRGLTECLIHGGI PHS/IVSD*GTHFTAKDVAETRIH RPRRNQGVVEVAPLTITRSDL AKFLLPVPTTFRSANLEVLL GGTLPPGDPTTIPLNWKLRLPR GHFGLPLPLSQQAKKGVSvla GVTLDYQDEFSSLHNRVTA AFPSLLHSSFAYLDNMIEKANK CHVEGVDHVSDPAQRRECDRH
7572	37940	A	7626	20	238	
7573	37941	A	7627	3	229	
7574	37942	A	7628	1086	1369	ETGMLPLRLLKPFLSDFAGPLH TSIMPTRRFCSKSPT*HTLATAL SQGLS*GT*NEASLTKEVGKN RCRYSPSYPPSGIREGKAQLCFY THWK

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7575	37943	A	7629	I	1805	MSGRSRGRKSSRAKNRGKGRA KARVRPAPDDAPRDPDPSQYQS LGEDTQAAQVQAGAGWGGL AAASAQLLRLGEEAACRLPLDC GLALRARAAGDHGQAAARP GKAASLSELRAADSVFVGTAG TVGRPKNAPR VGNRRGPAGKK APETCSTAGRGPQVIAGGRQKK GAAGENTSVSAGEEKKEERDA GSGPPATEGSMDTENVQLKLE NMNAQADRAYLRLSRKFGQLR LQHLERRRNHLIQNIPGVSGQAF *NHVLLASFLNSQEKEVLSYLN SLEVEELGLARLGYKIKFYFDR NPYFQNKVLIKEYGCCPGSQVV SRSTPIQWLPGHDLQSLSQGNP ENNRSFFGWFSNHSSIESDKIVE IINEELWPNPLQFYLLSEGARVE KGKEKEGRQGPGKQPMETTQP GPLSFVWWVAVSPSWLPGQQGP QELPVDRGPLPVHETHTYPPQL SRNPTGCQTDGRAGLPVTPCDK KALPCAQCFCVSHLLYCMGLQP RQKEKINPEVSSITNVAPKDME KVHAGALDKPMCGRQGKESQ GATHHATPSAISPAPSHPLGSSE TLIDGLAHFLEHSQINPSLLSR VLIQRQHLRHVAVTNG
7576	37944	C	7630	66	206	

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7577	37945	A	7631	3	1643	VQASQAEADQQQTCLKQLQ\S\QLSRL*KQAIELREAVEQHKVKNNDLREKNWKAMEALAT\AEQ\ACKEKLHSWTQ\AKEES/ERNQLCLIEAQTVMEALLALLP\ELSVLAQQN\YTE\WLQDLKEKGPTL\KHPPAPAEPSFGTWAFQV*GEAE\ETQSTICRAEF\DQYRSILGGDGRALLRDLQKSVEEEEQV\W\RAKVGAAEEELQKSRTVVKHLEEIVEKLGELES\SD\QVREHTLHLEAELEKHMAAASAECQNYAL\EVAG\LRQLL\SQSQRRLPPKNRNPQKTEPMASFALGQASS*V\KLKSHVED\GDIAGAPA\SSPEAAPQPSRDPRSA*RTQLELDQKPI\PWRMRQTTSRQKLHGPSFE\EASDLRACSVYKEGFWEKLPHSAAPPRSFFRNRRREAFTA*RRDLEKRGRSLTSD\LGRRARPRRLQELSERRTQEQLGKGRRTRVKKLQE\Q\LEKAEDGSS\SKEGTSVLSFLFGKKKLLFQLYQNALTHSFTIKPTNLHSVYPGPFPVLRKAHEETSLFRRPQEVRTFPGGPILLNGTC
7578	37946	A	7632	3	247	
7579	37947	A	7633	3	389	GQEFSPKVY/FVNQTMGN/SCGPIGLFNAVANNQDKLGFEY\GP\LNQFLF*NR*KCPPKDRAKCFER\NEAIRAAH\DAVDKEG\QCRVDDQGEFPFLFCLQNVDGPPSMNLDG\RMPFPRGPMAPSFRRTP

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7580	37948	A	7634	1506	3135	RGLGGGLAEQELQPWSPERSPV HNN/RM/QEQLKDLMEKTM AQELRDECTSLSRFDQLEEKV SVMEDINEMKQEEKVREKRIK RNEQLQEIQWDYVKRPNLHLIG VPESDRENGTKLENTLQDIQEN FPNLARQANIQIQEIQRMPQRYS SRRATPRHIIVRFTKVEMKEKM LRAAREKEIQTIREYYKHLYT NKLENLEEMDKFLDTYSLPRLN QEEVESLKRPITGSEIGAIINSLP TKSPGPDGFTAIFYQRYKKEL VPFLLKLQSTEKERILPNSFYE ASIIILIPKPGRDTTKKENFRPISL MNINAKILNKILANQIQQHIEKL IHHDQVGFIQGMQGWFNIRKSI NVIQHINRTNEKNHMIISIDAEK AFDKIQQPMLKTLNLKGIDGT YLKIVRAIYDKLTANILNGQKL EAFPLKTGTRQGCPLSPLLFNIV LEVLRALARQKEIKGIQLGKEQ VKLSLFADDMIVYLENPIVSAQ NLLKLISNFSKVSGYKINVQKS QAFLYTNNRQTESQIMSELPFTI
7581	37949	B	7635	1	594	
7582	37950	A	7636	434	744	TIACLARLGKFSWIISCRVFSNL VPFSPSLSGTPIRRFGLENRVT ATRILRFSDRLKKRRTTRLYPTP GSEGPTPTESR*LLAQQSEIKLQ GGSEAGGGAPA
7583	37951	A	7637	1	1077	
7584	37952	A	7638	1	348	
7585	37953	A	7639	1	831	
7586	37954	A	7640	275	457	LIAYQPK*AQDYMDSQLNSTRG TKKSC*GRL*GSGVIHGSMPVP TRTAGPLPFAGPCR
7587	37955	A	7641	341	504	ILRFSDRLKKRRTTRLYPTPGSQ GPTPRESR*LLAQQSEIKLQGGN EAGGGAPA
7588	37956	B	7642	1	627	
7589	37957	A	7643	121	375	DGQQLIALHRLALRELQQAVH AGLPQQAKILFDGGSEIGKIH*L RCAHCPLSSRETCRASCINESAT RGERPFAYWAPGWFFFHQ
7590	37958	A	7644	3	479	
7591	37959	A	7645	382	642	
7592	37960	A	7646	273	1464	

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7593	37961	A	7647	76	1763	IFGITRFLPFIYQKIHIFSKEQLPD LHSHFSDLNLEAHMYASQWFL TLFTAKFPLCMVFHIIDLLLCEG LNIIHFVALALLKTSKEDLLQA DFEGALKFFRVQLPKRYRAEEN ARRLMEQACNIKVGVYTGTTEL Q*DFSLSDLVWSWDSSCCCGK ASWQDDGRNLHYGSL*RPCFQ PAAR*RLPH*SGGHQQAQVYG TN\KKLKKYEKEYQTMRESQL QQEDPMDRYKFVYL*VTPAVA FILGIFIRS*EKERGKRKWLS KNETKRKNGKVLF*LCMSYPQ RLLAGELFQD*HKDVSNLPLSV ENVKNTNSLGRKNKNHK\REN RRLQEASMRLEQENDDLAHEL VTSKIALRNLDQAEDKADVL NKELLTKQRLVETEEEKRKQE EETAQLKEVFRKQLEKAEYEIK KTIAIAEYKQICSQLSTRLEKQ QAASKEELEVVKGKMMACKH CSDIFSKEGALKLAATGREDQG IETDDEKDSLKKQLREMELELA QTKLQLVEAKCKIQELEHQRG ALMNEIQAAKNSWFSKTLNSIK TATGTQPLQPAPVTQPPKEST
7594	37962	B	7648	1	618	

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7595	37963	A	7649	1	2375	MAGAPPPASLPPCSLISDCCAIN QRDSVGVRPSKPGAGYNLVVR RFLSLLEKRSIPVGVTRFSRCRP SPLSLTRKGNSLTPCASRIINMH FQAFWLCLGLLFISINAEMDD DVETEDFEENSEEIDVNESELSS EIKYKTPQPPIGEVYFAETFDSGR LAGWVLSKAKKDDMDEEISIY DGRWEIELKENQVPGDRGLV LKSRAKHHAISAVLAKPFIFAD KPLIVQYEVNFDQDGIDCGGAYI KLLADTDDLILENFYDKTSYIIM FGPDKGCGEDYKLHFIRHKHPK TGVFEEKHAKPPDVDLKKFTD RKTHLYTLVMNPDDTFEVLVD QTVVNKGSLLLEDVVPPIKPPKEI EDPNDKKPEEWDERAKIPDPSA VKPEDCALGLELWSMTSDIYFD NFIICSEKEVADHWAADGWRW KIMIANANKKKHKDTEYKKTDI CIPQTGVLEQEEKEEKAALEK PMDLEEEKKQNDGEMLEKEEE SEPEEKSEEEIEIHEGQEESNQN KSGSEDEALAEQPREGPGVPGP IPPKRPSRSPPIPEPRAKRLPTQE LRGESYTMSASGTARGPSPKER LGLTTKTGEKEVAQGFCREPGL RRPPNAQARDRSSRAPATHRKE LKPEREHISCSRSHIRYQEWSVL RDTVHRNLVLDTKRHPALILVE YKERTSSPATEQSCMENDFDEL REEGFRRSVITNFSELKEDVQT
7596	37964	A	7650	914	2786	
7597	37965	B	7651	1	2369	
7598	37966	A	7652	333	752	MSYVSRYGCGGRKNVATVSKG WAGSLAWPGGFPRKVKGGS WRPSGGV/DVAAPVRARLALL SGPIASESPLTTNPHSHSARRPR TYI/GHAPALRVTN/PESFSYWG TRGPSATMACDGLTRTGHSSPS RARSPPLLCAEAL
7599	37967	A	7653	1	177	RPLPSRPHAPPAGHTISSGPCG HRKFSPKAQGDSNTPRTRSRPRV SCALPPDVRGSWLS*KWNQIW YHTLPQPQENTPKSQENKPKSK PQPTQR*TRGPW\PSSRCRVRSG /THRRPGLFLS*KQ/PSESIGHSR ALSAFTPAEMISTLPPPPTSKSPL AARAAPPNG*SPKAGDSNTPR TRSRRPRVSCALPPDVRGSWLS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7600	37968	A	7654	1	1430	MQDTCEIIISPADFPTFSSSLKIR FSTDSPSQIFKKHC\QKIVLILLP KNSYTRRLLVSNQMYLESFEH QCRKTHILCKRTAGSGPFCSCPT GQPRHNSSASKCPASERGLCLK/ PKSKREKREP GPVAPAPLHAAP SSPGLGAPQLR*PGRTRSFGRD HVGVSPGPPRAGPRLFAPRPVLS RCSANPSGSHTQSPKQSSTGQI SGRADQVCGCWIRKRGVPGAA RGSPGCARTCHSRGHPHAAFPF QCNSLAPSAPAGLWRTQNAGP SG/HAQPSCPPVPL*PPHPHP*G LSFSSCSRSWVNPNTPP/EPREGE GQVPGRRRAASAPGASFSAPGT/P RAPQPLPHPPVVAQSPPAAVA SSESCKREAARRSPGASALHLPP KSARPRQACPCTLTDGGHIPPAS AARP*HKGHQTAEGKNPGRAD TSTSPFATFPFISGGEEKSRSPVL PERTRQREEAPGPPSSPLRGLW LTFWFVFL
7601	37969	A	7655	1	609	
7602	37970	A	7656	3	649	AKD/ELHIVEQGHDIRGRSIKIT/ LATLKM S/VQPTFS/LGGFEIQPT VV*GLKCVSGPCHISGQHLVA/ VEEDA ESEDEEEENVKLLSISER RSAPGVVSMVPQKKVK\LAAD EDDDDDDEEDDDDED DDDDDFD DEEAEKAPVKKSIRDTPAKNA QKS NQNGK\DSNPYSHPRSQG/ QDPFRKQEKT\PKTPKG\SSVE DIKAKM QASIGKKRIEPVL GTY
7603	37971	A	7657	1	1013	PWCDSVLRGCSLEQR SFIS VRLL SYLSACRHPMEDSMDMDMSPL RPQNYLFGCELKADKD YHF KV DN DENEHQLSLRTVSLGAGAK DELHIVEAEAMNYEGSPIKVTL ATLKMSVQPTVSLGGFEITPPV V\ LRLKCGSGPVHISGQHLVA V EEDA ESEDEEEEDVK\LLSISGK RSAP\GGG\SKVPQKKSKTCML MKDDDD\DDEED\DDEDD\DDD DF\DDEE\AEEKAPSERNLYRDT PS\AKNAQKS NQNGK\DISKPSS TPR\SKGTRIPSKKQEKTPKTPK\br/>GPSSVEDIKAKM QASIEK\GGSL PKVETKFINYYVKN\CSRMT\DQE AI\QDLW\QW\RKSL

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7604	37972	A	7658	9	271	GRVCKALWHSDWHTARVLCIN STTTITASCNP/RHTARRSLTTPT *MCRLENWTKNLLFNGPVPVL VMSLLFIASVFMLHIWGKYTRS
7605	37973	C	7659	189	500	
7606	37974	A	7660	5	291	ATPSPPSPPG/VPT*RPELLGPRR ERLLGPEGS/PGGGALPGVPPSR FVRTASSTLFLPPSPRPAFPSSIP LVPSPPRHCARSRRETWPRTLIG SAP
7607	37975	A	7661	1	431	LALQFSFLQRNRQGLNLIAEKG RLCIFLNEECCFYLNQSGLVYD NIKKLKDRVQKLANQANNYAE PPWALS\NWMSWVLPILSPLIPV FLLLLFGPCVFCLVSQFIQNRIQ AIANNSI*QMLLLTPQYQQLPQ NLSSVESLPL
7608	37976	B	7662	41	1547	
7609	37977	B	7663	74	298	
7610	37978	A	7664	3	647	ELWTRGPRKRQNGSSKPLWLL YGESGAQKSVEVTKPRLWP QWIQHRARRPCLQQACPSSRPH APAS\LPSSSPTARDTKHRAQV KTTDGARRRDGRVLGVLEVS RSIADGQYKRCGVTSVPD\IRR C\QLTPQ*PGSILLACDGLF\KVF TPEEEAVNFIL\SCLEDEKIQTREG KSAADVR\YEAA\CNMLANKA VAAGARPNDNVT\VV\IGH
7611	37979	B	7665	1	1302	
7612	37980	A	7666	3	1268	SCARVAAWGGKLRRGLAVSRQ AVRSPGPLAAA VAGAALAGAG AAWHSRVSVAARDGSFTVSA QKNVEHGIYIGKPSLRKQRFM QFSSLEHEGEYYMTPRD\FLFSV MFEQMERKIQSRS*QKRFIEDT LSGIPTAGCSSFFQRPWAIKGL I\SYNRV\FFFALQSSLNPIPGFH VAFKMLDTDGNEMIEKK\ENFL SCRRS*VNKMT*LTVKTNETWI SGSNK*KNLKL\DTTLQMRFFG KRGPRKLHYKEFRRF\WENLQT EIQGN\VEFLQFSKGLSFMRKRR TLQSGYFFSTNTENKDIYWKNV REKLSAGESISLDEVKAFCHCT RQIGTLCY/SAMQMFTLAHRPV RLAEFKRAVKVATGQELSNNIL DTVFKIFDLDGDECLSHEEFLG VLKNRMHRLVGTTSEYTRIL EVCEERKH

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7613	37981	A	7667	2	342	QNRGPGRT*DFLPNS/VGEKILS FCNCSLGSIGALGPACCRVLSEL SEEQVFHVNYLDVEELSLSRC QCLVELSFQLATAYHGSATTRE AARGEAACRAHLMFWCLCIWQ FCRL
7614	37982	A	7668	1	1166	VGCVLGRVEAAVTVAPAGTEE GMSEEEQGSGTTTGCGLPSIEQ MLAANPGKTPISLLQEYGTIG KTPVYDLLKAEGQAHQPNFTF RVTVGDTSTCGQGPSKKAAKH KAAEVALKHLKGGSMLEPALE DSSFSPLDSLSPEDIPVFTAAA AATPVPSVVLTRSPAMELQPPV SPQQSECNPVGALQELVVQKG WRLPEYTVTQESGPAHRKEFT MTCRVERFIEIGSGTSKKLAKR NAAAKMLLRVHTVPLDARDG NEVEPDDDHFSIGVGFR\ DVL QNRGPGCTWDLSLRNSVGEKILS LRSCSLGSLGALGPACCRVLSE LSEEQAFHVSYLDIEELSLSGLC QCLVELSTQPATVCHGSATTRE AARGEAACRARRALQYLKIMAGSK
7615	37983	A	7669	2	328	
7616	37984	A	7670	181	1271	LEASLDQH*ASVHSFRSHIHVIS RTHRKR\ SQRDPSELDAEHAQKV LEMEHTQQMKLKERQKFFEEA FQQDMEQQYLSTGYLQIAERR GEWGLGLLVWGLTGCAHC SSWGLVRWYKCYSFKFVDEPC LQFERNCKPIGSMSSMEVNVD MLEQMIDMDISDQEALDVFLN SGEENTVLSPALGRVDKLALA EPGQYRCHSPPKLQQWCGSVM NSSQRFDMLHSGNFEIHLSSL VVKDWRLLQGGADSPAGLTGNS SLFVRQAFRGPAMGKAMGSS QVLQAPGPESSTCQNEITLQVP NPSELRAKPPSSSTCTDSATRD ISEGGESPVVQSDEEEVQVDTA LATSHTDREATPDGGEDSDS

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7617	37985	A	7671	60	965	QRGVGGVGPRGRQRQQQPEA* GEETAAAAMLETLRERLLSVQ QDFTSGLKTLSDKSREAKVKSK PRTVPFLPKYSAGLELLSRYED TWAALHRRRAKDCASAGELVDS EVVMLSAHWEKKKTSVELQE QLQQLPALIADLESMTANLTHL EASFEEVENNLHLEDLCGQCE LKRCKHMQSQQLENYKKNKR KELETFKAELDAEHAQKVLEM EHTQQMKLKERQKFEEAFQQ DMEQYLSTGYLQIAERREPIGS MSSMEVNVDMLEQMIDLMIS DQEALDGLPELWRRREHCAVP
7618	37986	A	7672	1	124	
7619	37987	A	7673	3416	3920	CCLIKNDIKEKLHYSDCRLNVG QPCILPRNAFEFDLLIFYLGNLH FYISEIGLLGYCTFFFFFFFEMESC SLTQAGVQ*CNLGPLQPLPPGL E*F/SCLSLPSSWDYRHVPPHWL IFVFLVEMGFCYVGQAGLEFLT SGDPPTSASQSARITGVSHHAQ PGYCILILGFC
7620	37988	A	7674	1	387	

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7621	37989	A	7675	1	1827	MKKVGGGRVFWAKERASAEAL RHELAGLKKCKGSAADADQG GLGQGCCRHSKRWEGFTRGAS RAARLGNEEQDAASAGPGPNG CGHLGAEEPSAAASGMDQCVT VERELEKVLHKFSGYQQLCER GLEELIDYTGGLKHEILQSHETC LSVVLLSLPMVMAGSGNLKVL QLCRFLHMKTGGEMLNYGFHLA HHM\ALGTSIFGEEGRYSL\STS NSSIAALLCALYPHFPGFTALD NRYHLQ\ALR\HLYVL\AAEPRA FLVPVCGTQTRPCY\ALLGSLP YKGTQWY\EQTKE\DLMAPTLL PELHLLKQIKVKGPRYWELLID LSKGTQHLKSILSK\DGVLVVK LRAGQLSYKEDPMGWQSLLAQ TVANRNSEARAFKPETISAFTSD PALLSFAEYF\CKPTVNMGQKQ EVILDLFS\SVLYECVYPRETP\IE ML\PAYIAMDQLIRRLGEREMS ETSELW\QIKLVLEFFSSRSHQE RLQNPPLKRGALLMELGNSPPF CKCT\INNTL\DTWLQVRGDIC VNA\LTGQPL\EESQL\DMMLACF LVFHFPSS\TALPTL*D*KGSTS FA\ELLFKFKASLKMPSAELCLR LA\PLPSLEIPQPNGDVTSGGEP
7622	37990	B	7676	374	515	
7623	37991	A	7677	102	1237	HSHRAACPDTNRLVPGASR*HY LHRCRSRHSSS/NIGKNI/HSLRA GAVNNQSRPQSHSSGEFSLLHD HEAWSSSGSSPIQYLKRQTRSSP VLQHKISETLESRHHKIKTGSPG SEVVTLQQFLEESNKLTQVQIKS SSQENLLDEVMKSI\LSVSSDFLG KDKPVSCGLARSVSGKTPGDFY DRRTTKPEFLRPGPRKTEDTYFI SSAGKPTPGTQGKIKLVKESSL RQSKDSNPYATLPRASSVISTAE GTTRRTTSIHDFLTKDSRLPISVD SPPAAADSNTTAASSEYHLHQ WSSHILDIPHTIGSCAQNDLAI DMPEPLYAQARNNSRTGRSHFL NQTFATIRMPSDAFGMLAKDK HRTIYCGPFISAILIPEYRIS

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7624	37992	A	7678	1256	1971	HNCALHADSTMRGKAPLFRPT YKLMEQLLRIFRWISEQKCQNV EVTSICWF/CTCTYSGWVEAYP TRTEKPYKKGKNDPSTKGQC NPYLEVITNPLNPHWKGERVT LGIDRARLDPRVNILVRGGEVY ERSPEPVFQTFYDELNPVPEIP GKTRNLFLQLAECVAQPLNVT CYVCGGTVTGYQWPWKAREL VPVDPVPDEFLAQKNYPDNFW VLKPSITGQYCIAREGKKFTHP
7625	37993	A	7679	1	1710	
7626	37994	A	7680	1	561	
7627	37995	B	7681	1	642	
7628	37996	A	7682	2	611	
7629	37997	A	7683	1	1718	MLSIQSTHAKELENNFFQNTED WYFHTSHHLSSLRFFSARESNC SMKLYEEAYMERYRDFLPATM WSAHTEVDPVGQATWIKQKSE KDPVHLQKGKNGPSCTKGQCN PLELVITNPLDPCWKKEERVTL GIDGAGLDPQVHILVRGEVYKH SPEPVFQTFCDELNPVPEIPGK TRNLFLQLAWHVAQCLNVTSC YVCGRTHIGDQWPQEAEQELVPT DPVPDEFLAQKNHPDNFWVLK A\SIHQYCIAREGKEFTHPIG*L SCRQRQLYNGTTKTIT/W/RGSS NHTERNPFSKFKLQTVWTHLG VPRAWEQPPLGFLLGYVRAWS LLTGLLDHWAGSCCLLGTIVKPS FFPTAP*KQGKLLGFPVYASRE KRIIAIENWKDDEWPPPERIIQY YGPVTWAQDGLWGYQTPIYVL NRIIRLQAALEIITDKISRALTIL AWQETQMRNAISQNRLALDYL LAAEGGVYGKFNLNCCLHVD DQGQVVEDIVRDRTKLAHVPV QVWHEFDPGAMFGKWFPALG GFKTLIIGVLIVIGTCLLPCLLP VLLQMIKSFIATLVHQNASAQV
7630	37998	A	7684	3	406	TLISFIYPAQNPELLNKLSQRKT TVLAMDQVPRVTIAQGYDALS SMANIAG/YLIVGGGVAGLASA GAAKSMGAIVRGFDTRAAL QFKSLGAEPLEVDLKESGEQGQ GYAKEMSKEFIEAEMKLFAQQ CKEVDI
7631	37999	A	7685	1	236	
7632	38000	A	7686	1	978	
7633	38001	C	7687	415	453	

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7634	38002	A	7688	3	408	
7635	38003	B	7689	1	2137	
7636	38004	A	7690	112	3688	GNWGARKLGTHINMANLLKTV ATGCSCPLNNNLGSCKGLRVK KDFLRTFYTHQELWCKAPVKP GIPYKQLTVGVPKEIFQNEKRV ALSPAGVQNLVKQGFNVVVES GAGEASKFSDDHYRVAGAQIQ GAKEVLASDLVVKVRAPMVNP TLGVHEADLLKTSGTLISFIYPA QNPELLNKLSQRKTTVLAMDQ VPRVTIAQGYDALSSMANIAGY KAVVLAANHFGRFFTGQITAA GKVPPAKILIVGGGVAGLAS
7637	38005	A	7691	2	288	EFPATIQSNRARGAKPGRRVDR GPQARCFDVGGCPRSAPSNGLR NSEPSP*GR/CGRSPVSPALSSSR DVNLPCMSSGTDSGACSEVLV GTYRPL
7638	38006	A	7692	54	522	RFH MSSLSASPPPRLWTQMNT QCLVFSASHLPRCQEMLFQGTV *EKP HSPRCFSPA KKPRPAGAPA ASHKCR/CTP*PGPPSEPTV/PSD KAPLVGNAESQRVVASPGPPAP CSPV\GWP GTYKAIPAS GTVAP TPLSAGTTDMTRLCPLSLEFLND
7639	38007	A	7693	3	57	RAGAGR SERA VAEES*GGLSGS CGRHNP GQS RLQRRPSQDVELE DCCR GC*S GSLWLRT LRP KRPA PF GGFSV PASS AASI PTGSA VVQ PGPLPGPTGKSPPV FAGSGPSSN PQPA FS\NMRTRDGSKPGSA/SF APLT PPLEP PAGL RAP SSGV SPL LPATIQS NRAR ARASP GDA*A AP PRPGV LTSA VPL PRR VT/CLR NS RAF APA VR TN AV TP*PGG VSGP SQ RAE AA
7640	38008	A	7694	3	237	
7641	38009	A	7695	114	186	

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7642	38010	A	7696	73	904	FGGFLANLSYQEALSDTQVAIV NILSSTSGLFTLILAAVFPNSGD RFTLS*ELLAVILSIGGVGLVNL AGSEKPAGRDTVGSIWSLAGA MLYAVYIVMIKRKV DREDKLD IPMFVFGFAGLFNLLLWPGFFL LHYTGFEDFEFPNKV VLMCIIN GLIGTVLSEFLWLWGCFLTSSL IGTIALSLTIPLSIIADMCMQKV QFSWLFFAGAIPVFFSFFIVTLL CHYNNWDPMVGIRRIFAFICR KHRJQRVPEDSEQCESLISMHSV SQEDGAS
7643	38011	A	7697	1	308	
7644	38012	A	7698	3	397	
7645	38013	B	7699	1	963	
7646	38014	A	7700	3	1433	KIRVTSKALELGKAQQQTGTD GSGRGWGRPNSSGKEGHFYNN ISE*VGGGASRSGAGP _R RWRRG PRMLQITNASGLRFRRQLLYW FL*GPSTLRGVESGSGGLEV LW GSRDPAGR MKV SNVSCQASVS RMHAAFGGT FK*APAPTPAHPP RAPQLICLAQVWAATGRRVAR VGMLSL*EGPGELVAGESGCA AVMQHLRAGPFRALLFTSNLD MDFRVSLCGWCMTSDFLTRPL SLLSLQEEERMVYVAFSEFFF D SAMESYFRAGALQ LLLVGDKV CHGLFVGWAREGL*QSSLPHC AGGGRDRATCTPVRPRRGAAIK PSGTTISVTASVTIALVPPDQPE VQLSSMTMVRVPEWGLLAGG QGKMGCGL LSR*AGALPCTS VI GQQSHLSTGMGWAGFVRS*PS PSPRKA/RGVRMEEERGVNWA GPD*ATNHA VSGGRMGKEGGP SPLSIAPQCHR PADVRASTA PTP
7647	38015	A	7701	2	391	MALRGKALRTTSDLRRFRIYSN HSATWKSLA/L*IPLQAPLK/TM LPELG*MPQCSNERTWRG\VQ DPHYPEGIKL CAMKV VTNP CGI PSPIGA*SPTFAKGLREVIEKNR P\ADVRA S\TAPTPSHSSCLSP
7648	38016	A	7702	1	189	
7649	38017	A	7703	202	455	KCDILPTALDSIH/SSH RVHLA HSPHSLQ**HPHPLAQPSQQDRP SVPL**MSLADPESHLS ESHHF HL*PACRV*AY DLLPL
7650	38018	A	7704	313	378	

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7651	38019	A	7705	126	1246	PNGLRPPCPSPASETPGNAPVCD PGSSSQGAQGKLNAWWAPGM A/ASRSLHSLHPVR/RACALPAQ SLGLPLRSFRCHLSDPVFRTGAP PGQQGSWQYKVLVHAQERELTQ LREKLREGRDASRSLNEHLQAL LTPDEPDKSQQQDLQEQLAEGC RLAQHLVQKLSPENDNDDED VQVELAEKVQKSSAPREMQKA EEKEVPEDSQQECAITYNSNHGP YDSNQPHRKTKITFEEDKVDST LIGSSHVEWEDAV/HHYSRK* K***GRGRKRASVSQKPEETPS\PRPEPPPRGSGEAERSVGSWDA SSRSLRRLHPLREPVTPLPSRFR GRCGASAAIFGSCVPHGGSTRA GMMGSKEVGKGGDPGEETSPV ALFS
7652	38020	A	7706	3	5665	LLEKLRQRRIHDKAVALERAIDE KFSALEEKKEKELRQLRLAVRER DHDLERLRDVLSNEATMQSM ESLLRAKGLEVEQLSTTCQNLQ WLKEEMETKFSRWQKEQESIIQ QLQTSLHDRNKEVEDLSATLLC KLGPGQSEIAEELCQRLQRKER MLQDLLSDRNKQVLEHEMEIQ GLLQSVSTREQESQAAAELVQ ALMERNSELQALRQYLGGRDS LMSQAPISNQQAEVTPTGRLGK QTDAQGSMQIPSRDDST
7653	38021	B	7707	1	1098	
7654	38022	A	7708	193	5850	HCQRNTTGEHCEKCLDGYMIK S*DSLFGDVWN*LPIFASNFSFA EL*K*GFVRDYHK*TFVCS/CLL NP*GPEFVGKKIKRKKNHDAK YLNV*YS/CFRCAPGYYGNPLLI GSTCKKCDCSGNSDPNLFEDC DEVTGQCRNCLRNTPGKYCHIL SIKKCISRLLLFLPTVCNCGGGP CELH*EQNFWFKNYFNSRHPLP QTDVSWCSAKTACL*HAFDL*F *RNVSPPGCDKCVWDLTDALR LAALSIEEGKSG

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7655	38023	A	7709	1	713	TPCFESPN/ETGTYFSTKAGYVL LN/ESSN/IGIEFEIAFKVRPRSSS GTLVHGHGVNNGEYLNVHMKN GQVIVKVNNNGIRDISTSVITPKQ SLCDGRWHRITVIRDSNVVQL DWDSEVN\HVGPLGIQKPIDH REPVL\VGGVPRILY*HPRFCPP QNPFTG/CIR\HFVIDGPPQWSFQ VKAAPGQAGARKASNSLSQQP GHGQKHSCPKYKVPLRALEKE HKASPGGTTLSFGVGGSFSSS
7656	38024	A	7710	3	322	DGVSHCRPGWSAVA*SQLTAT STS WVQMIACFTLPSSWDYRCT PPCLTNFCVCIFSRDRVWAMLA GW\KNS*PQAIRPPQPKVLGI TGHEPRAPGQKILTFHILT
7657	38025	A	7711	2	480	YSPPECPFCGKIEEHSEDMETH VKTKHANLLDIPLEDCCDQPLYD CPMCGLICTNYHILQEHVDLHL EENVTFSKAWIESSVLVIYNWLT SFSKKKTERGD/PEESRQEIEF QKLQRQYGLDNSSGGYKQQQLR NMEIEVNRRMPPSEFHRRKA DMMESLA
7658	38026	A	7712	187	468	
7659	38027	A	7713	1	1110	MHCIETGVERRILGLLLFRGSLA SVIRPGEVLDAAHALVCQRGPK GKPSGAQCGSCWPLGRPALT QLVPASFVCLACAFGAERLGDS ALRSSDLTHLLVNTMLSCNIC GETVTSEPDM\KAHLIVHMESEII CPFCKLSGVNYDEMCFHIETAH FEQNTLERNFERINTVQYGTSD NKKDNTLQCGMEVNSSLGCG ASNHPKNSAQNLTKDSTLKHE GFYSENLTESRKFLKSREKQSSL TEIKGSVYETTYSPPPECPFCGKI EEHSEDMETHVKTKHANLLDIP LEGMDRVQCSGDLQLAHQLQQ EEDRKRRSEESRQEIEFQKLQR QYGLDNSSGGYKQ\NNYEIWR* K*IGEECLHNFIGEKLI
7660	38028	A	7714	2	303	
7661	38029	A	7715	97	233	RTVTCYHRNSRACHPQQITSCP *HRALPCLPLWSPKCPSRWPF G
7662	38030	A	7716	229	359	MKWVYCSVVTGMGKGQHRMP\ SKG*GWVQRYNRDGIPSPRVLE LF

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7663	38031	A	7717	1	1185	MSTIDDPRLQGRRMCLMLRGT PEQKALVIGEACMWGEYVDN TNLVPRWLCPNSTQDLANEGL REMTILHRHIPDRGKGVMRSCS FRTPRPFTLACGPEKSLMDPQS QSNSEGASSSLVVKLADTDRER ALRMRQQMAGHHLGAFHPAPLP LGACGAYTTAILQHQALLAA AQGPGLGPVAAVAAMQHVA AFSLVAAPLLPAAAANSPPGSG PGTLPLPAPIGVNGFGPLTPQT NGQP\APTRSTITGSPLI\SGWSQ SRPILRIMKYAEQRIP TLNEYCV VCDEQHVFQNGSMLKIQPDTII QVWREDIPVN YMKEL ELVTKA GFRALLSAPWYLN RIS YGP DW KDFYIVEPLSFEGTPEQKALVIG GEACMWGEYVDNTNLVPRLWA HRIQL
7664	38032	B	7718	1	1196	
7665	38033	B	7719	184	1689	
7666	38034	A	7720	228	407	
7667	38035	A	7721	1	725	MQRGALSPVLM SAAPEPPPRP PPGLSPPGSGPGSGSRHGSARPG PTPEPSGSLGAALDSSLRAAVAF KAEGQRCYREKKFREAIGKY HRALLQLKAA/LGGPP*RPARP RPPGPTSSPGPARLSEEQRRLVE STEVECYDSSPA\CLLQSELVNY ERVREYCLKVLEKQQGNFRPP YRAG\IAFYPLG DYAR ALRFLQ EAPSREPPDTNVLR Y\QLTQLK MNRC SLQRED SGAGSQ TRD VI
7668	38036	A	7722	1	262	NGKEPGRYTFEDAQEHIYKLM KSDSYPRFIRTSAYQELLQAKK KGRNIPIFPCHKNCTPTLRASTN LL*KEGKSLTSKRLTSLAQSY
7669	38037	A	7723	1	1392	

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7670	38038	A	7724	1	1544	MAQGNNYGQTSNGVADESPN MLVYRKMEDVIARMQDEKNGI PIRTVKSFSLSKIPSVFSGSDIVQ WL\KNLTIEDPVEALHLGTLMA AHGYFFPISDHVLTLLKDDGTFY RFQTPYFWPSNCWEPENTDYA VYLCKRTMQNK\ARL\ELADYE AESWA/RGLQRAFAPKW\EFIF M\QAGAQAKVDKKRDKIERKIL DSQERAFAWDVHRPVPGCVNTT EVDIKKSSRMRNPHKTRKSVY GLQNDIRSHSPTHTPTPETKPPT EDELQQQIKYWQIQLDRHRLK MSKVADSLLSYTEQYLEYDPFL LPPDPSNPWALSDDTTFWELE\A SKEPSQQRVKRWGFWAWDEGI GKTQLGRRNSFLKIF*EFRISGS GNFKVLG WASGRTLKKRPF\KE VPSRVQEIWQEFLAPGAPSAINL DSKSYDKTTQNVKEPGRYTFE DAQEHIYKLMKSDSYPRFIRSS AYQELLQAKKKGKSLTSKRLTS LAQSYLNGSSCSMNADWSHCT HFVAQCCDLEQRTLEQDVA
7671	38039	C	7725	81	439	
7672	38040	A	7726	531	686	GWQWLHRPPGATQHCGGNLP AEESLPARATN*ARPAAHTRGG RGQDLPPGG
7673	38041	A	7727	93	428	LHCQVHSLIDPLLIISFLLLL *D*VSLLPRLECSGAISSHCSL H/LPGPSRDSPASAS*VAGITGT CHHVQLIFVFLLETGFHRSQD GLDLL/NLVIRLPRPPKVLGLQA
7674	38042	B	7728	99	425	
7675	38043	A	7729	35	861	
7676	38044	B	7730	141	586	
7677	38045	A	7731	116	926	AEIVAQEVSEEGGKS RKG P QFG KSQYQELIRRSECGLNRGEGESI KANMQQVIYIFPITLAEVVRP HSYPSKKTGLTLLAAASIA YISR *EWLYFETGTWVYVPFAKLSLL GLAAFFSLSYVFIA SIY LLGEKL NHWKWVSVRNSTLILYIRMAK SHTQSPTSLAHMPFC SIKIEMAE VPSSAQSMNWCEKLLVFPPR*C CFLRPRDSVSPPVFAWFILMF NTRLFQEAFPGQPQILQRWRLE SVGICFQWPDWKSPA K HQLVK

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7678	38046	A	7732	32	394	GKAVLPIMRETLGDFHYQIHCC PDLPGTDLGHPGSPDLGEVKFL SQT*EVTSVLQVSGKVWR*WTAI CTHTSQSLISI\LL\FCLRASATS LTLSHCVNVVKGLLDFKKRRG HSIGGAPEQR
7679	38047	A	7733	1	765	
7680	38048	A	7734	3	1295	QARVSQELKKAAKRTVSISEGP DTLGDGMRERRETALAAPEPEP LEKEACEKWKRPFRSASATSLT LSHCVDVVKALLDFKKRRGHSI GGAPEQRYQIIPVCVAARLPTR AQDVLD AHLSEVQCCSF\GPNS SLLATGGADRLIHLWNVVGSR LEANQTLEGAGGSITSVDFDPF G/SNQVLAATYNQAAQLWKVG EAQSKETLSGHKDKVTAAKFK LTRHQAVT\GSRDRTVKEWDL GRAYFSR\TIQCSFSYCN\VVCG DHIIISGHNDQKIRFWDSRGPHC TQVIPVQGRVTSLSLHDQLHL LSCSRDNTLKVIDL RVSN\TARG FRADGFKGCGSDWTKAVFSP\DR SYALATLPVMGP*IWECGTPG KNWKKQELTGTPIALPVQTPW PWCLLPGSPHGETWTQGRKGC AFGSRAHDLPALGWRLLPEA
7681	38049	A	7735	123	463	DVEVGLISQLQDCELGCIPLK VFP AVFRLPLSLHTFLPLPLSRT LASGGDGAT SASCRC PGAVSI S*L*QTVASP*V LVFVHSRKE\T GKTARAIRDMCLEKDTLGLFLR
7682	38050	A	7736	1	489	
7683	38051	A	7737	1	423	
7684	38052	B	7738	1	900	
7685	38053	A	7739	1	1824	
7686	38054	B	7740	400	969	
7687	38055	A	7741	3	4781	EISATQIIVCTPEKWDIITRKGGE RTYTQLVRLIILDEIHL LHDDRG PVLEALVARA\RNIEMTQEDVR LIGLSATLPNYEDVATFLRVDP AKVLFYFDNSFRPVPLEQTYVG ITEKKAIKRFQIMNEIVYEKIME HAGK\NQVLVFVHSRKGKT ARAIRDMCLEKDTLGLFLREGS ASTEVLRTEAEQCKNL*LKDLL PYGFAIHAGMTRVDRTLVED LFAIDKHIQVLVSTATLAWGVN LP*HYTALFK
7688	38056	A	7742	2	518	

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7689	38057	A	7743	18	1108	CSGIPRFRDSQSTRAACFFPAWT RMRAPSMDRAAVARVGAVAS ASVCALVAGVVLAQYIFTLKR KTGRKTKIJJEMMPEFKSSVRK NPTRVEEICGLIKGGAALKQIIT DFDMTLSRFSYKGKRCPTCHNI IDNCK\RLQMNVKEKSVCQLKEK YYAIEVDVPVLTVEEKYPYMVE WYTKSHGLLVQQALPKAKLKE IVAESDVMLKEGYENFFDKLQ QHSIPVFIFSAIGDVLEEVIRQA GVYHPNVKVVSNFMDDETGV LKGFKGELIHVFNKHGDALRN TEYFQSN*KTNSNIILLG\DSQG DLRMADGVANVEHILKIGYL DRSGMSF*EKYMDSYDIVL\Q DESLEVANSILQKIL
7690	38058	A	7744	105	548	PQTPRLKQSYHVSLPSSWWDHP VAGKRA*HAH*FYIMAQLFLPA ASPGPTPASQQPLWTQCLPISW RPWSAHSFLKPSSPGPGPTPASQ QGLWTQLPRSFQRWPWKSSSR PGNGPGRASRPPRAQLRPLGG LSRFNDGHGNFLAQ
7691	38059	A	7745	186	650	RCPGCPTTASARESREAESRGR GSSGASWGAQWEEPQPRRL RGTDPCMIFWAPHGSSTWR CVHSRSTAADPVLTSPA/STPS SNCSGSGTSALPLPLPQTLGP *QPGWKGTPQPCLNTWGVSITS TGRWATPKIPGLTVPPENMDS MWG
7692	38060	C	7746	212	556	
7693	38061	A	7747	2	312	PDLK*STCLGLPKCWDYRW/RA TMPGWENIFFSMNHTLNALTG AVTSTRDNS*LHRVSCISSPWCC CLSPCPCRVSAGTGRVPSCLCH SGAWNRLDDQDINRNNSC
7694	38062	A	7748	2	366	FLHTKYLLFCGIKAPHKYFIRII FFFFLRQS/LYSIAQGGVQWGN LGSLQPPSPGFQLSCLSLPSSW NYRCAPPANFVFLVEMGFH WIKPG*SRN*PRDPPASASQSAG ITGVSHHAQP
7695	38063	A	7749	1	446	MPILFTTVSSALSGAQHIADAQ CDRKGHRTTIQGSRVNLVQPSV GPKVEETQCWGPGGRGMPGAPE APRERRVRSGSRSGDPGVA/PR AASGVGGRYAITGRASAAVP CRSGGARRGGAGGQAADCAGPG H*KESESRGPEGPAEGSQL

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7696	38064	A	7750	1	744	GGLIPRAQRESKRRSRGRARAA SGV/VWALCYHPRQSECCGTL* KWRSSPRRCWRTSG\DCGPGH* KESESRGPEGPAEGISASLKM* WFASGTCLSRLRQRK*LKK IKIIWIKK/SEK/PAEAT*SEGQPP F*GPRQTGAEGF*LEPPQPGMSL KLFKVLKG*DSRTKMGDQQQPP RVHGRTHGPLQPLTPVKQGGS CPVKGPSPSGIWP*KPLL*CLAT L*WQEGTFSLSGGLGPCTPGAS VGHKIY
7697	38065	A	7751	316	650	SYNTHGITFHVPTANVLVVDL MCHLEKLAKYDDIKKMVKQA LEGPL\KGILDYTEQQVVSSNFT SDTHSFTFDAGACTAFNNHFFK LIF*YDNEFGYSNRVVELMFHP ASKG
7698	38066	A	7752	2	775	QARRARSNSRGLSQSAARPLA AKTAWRTVAPPQPWAAAPR*R SSCPHSSCATSPGPACQSSA HSPSPRLQAPPPTSS\SGSSVPE AATAPLAASARRGTPRPTGRP SWAGTRQGSWAGTQRPVVWA PAPAGPPRAAAAAR*GRDKS QLTCPPRHSTPPGSAAGASRHR RRGLAGPAPSPPGCRAARPPWP SAAAALGLGGRGPDLVALHCEI HWPLEFQSLLCCLLTSRGGEAS CHPEFHLMHDFLPGSF
7699	38067	A	7753	1	552	MQTLFTLLQPSSQTPGIPQPIVC CVYAESGARDSGQP/PSKVPVPS FCTPAATQRG*REPGCShPAGD CSAPQQCS*PGQ/RIS/RGDKVL ASNTYLPGPPGLPGQQGPPGTW MKVETITQQNTGTENRVFSLS LYMTISKQYLSEEQGSHWLSC INALQAFFSNAAIWLVTFELS RVLDGAEND
7700	38068	A	7754	2	538	LGKYITGDKVLASNTYLPGPPG LPGGQGPPGSPGPKGSPGFPRY A\GLLGQPGSRGSIGTHGTIS*S/ G/LPTKQGRRGPVGPPGPPERD GSKGERGAPGPRGSPGPPGSFD FLLLMLADIRNDITELQEKFVFG HRTHSSAEFPPLPQEFPSPYETM DLGSGDDHPRRTETRDLRAPRD
7701	38069	A	7755	146	373	

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7702	38070	A	7756	678	1582	CQGNNSPLSGVWPSGDWEDKHS Q*CPVVCSPQNILSQTSRHNDR DYRLPRAETHSSSYAQYSTPSN LVVHPTATPSTVPSSPFTLQSD\YQP QPKKSFDANGASTLSKLPTPT SSVPAQKTERKESTSGDKPVSH SCTTPSTSSASATE/S/TTSAPPTS ASAGPCFCSCSTARQYLPYFRDP NLRTIAVLCKATVAALINS*C GTYLKIK*SSYSSCDTSLTAVYN S*VSYCWTICFQHNVSDFSSCSA \PTQAQPSNQSPMSLTSDASSPR IICFSKE*GTPQT\NTVPIQTFGFS TPPVSSQAKG
7703	38071	A	7757	1	1365	MHLIPPA TNCDTLVECCLPGKL TRDLVCTAFTGFGTSYSPQENS HNHSALHSSNSHSSNPSNNPSK TSDANILSQTSRHNDRDYRLPR AETHSSSTPVQHPIKPVVHPTAT PSTVPSSPFTLQSDHQPKKSFDA NGASTLSKLPTPTSSVPAQKTE RKVLQQQLSKHNRKVMIRSLIT SIIDLLYIEKDLRYQKNIESTSG DKPVSHSCTTPSTSSASGLNPTS APPTSASA VPVSPVPQSPI/PSLT SGPKSS*TIA\PALQATLQLNNS NVDISKINEAQPSNQSPMSLTSD ASSPRSYVSPRISTPQTNTVPIKP LISTPPCFITAKG*LLQ*LSQGTS VHSQPHAAACNC*/PSSK/SHEP VSPRSLQRSSSQRSPSPGSQFILL NSSNGIQMATVVPQEFFLARFH VFHLTPGTRRPPFQWKISLKHV SRDGPADSWQEGRASRFTAE GRRH

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7704	38072	A	7758	2	1256	CHCGPP/VKVEAYGSQVLKGVL AQVQLTVGPVGPRTHPVVIFPV PECIIGIDMLSSRQNPHGSLTG RVWTIMVRKAKWKPLELPLPR KIVNQKQYHIPEGIVEISATIKD LKDAVGVIPTTSPFNNSPIWPVQK TDGSWRMTVGYCKLNQVVTPI AAAVPDVVSLLSEQINTPPGTWY AAIDLANDFFPIPVHKAHQKQF AFRWQGRQYTFTVLPQGRWEI NMTKIQGPSTSVKFLGVQWC ACQDIPSKVKDLLLHLPPTTK K/EAQCLSGFRREHIPHL\PIYRV SRKAANFEWSPEQEKAHQVQ AAVQAAWPLGPYDPADPMVLE VSVADRDADWSCWQASI/GHK VGHAQQHSIIKWYWYIRDWAR ADPEGTTKGQGQRRWWQLAE RQDSRDREAAIGERQETAVGKT ARDGEAVCD
7705	38073	B	7759	56	3476	
7706	38074	A	7760	3	591	DPADPMVLEVSEADRDA\VPIS ESQQRPLGFWSKALPSSANNYS FFKRQLLACYWVLVEIEHTM GHQVTMRPELPIINCVLSDPCSH KVGHAQQHSIIKWRYIHDWA EGTSKLHEEVAQIPMVSTPSLP QPAPMASWEVPYDQLTEEEKT RAWFTDGSARHAGATQKWTA VALQPLSGTSLQDSSEEKSSQW
7707	38075	A	7761	1	558	
7708	38076	B	7762	1	1189	
7709	38077	A	7763	604	1760	NSWCRWFNFRY*YPTFYWES* NT*IPLREWFG*NHDASCP*TLD SKSFSFETRTGSPCSSLQTAYC GTLWIVQGV
7710	38078	B	7764	1	474	
7711	38079	C	7765	1	3384	
7712	38080	C	7766	1	333	
7713	38081	A	7767	1	390	
7714	38082	A	7768	3	728	
7715	38083	C	7769	184	529	

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7716	38084	A	7770	2	837	CHCGPP/VKVEAYGSQVLKGVL AQVQLTVGPVGPRTHPVVIFPV PECHIGIDMLSSRQNPTGSLTG RVWTIMVRKAKWKPLEPLPR KIVNQKQYHIPEGIVEISATIKD LKDAVVPIIPTSPFNSPIWPVQK TDGSWRMTVGYCKLNQVVTPI AAAVPDVVSLLEQINTPPGTWY AAIDLANDFFPIPVPVKAHQKQF AFRWQGRQYTFTVLPQGRWEI NMTKIQGPSTSVKFLGVQWC ACQDIPSKVKDLLLHLPPTTK K/EAQCLSGFRREHIPHL
7717	38085	A	7771	2	469	
7718	38086	A	7772	3	587	YPASAGLMLQNFGVIGLRYHF AIHSPAAGGLLDGLHAVAAIQG ITKIEETPNHQRAPAHWTLLTQ QAHLQPSPLHFNLPLTLCLMHC PTAIPHCFADARTWVNLPSSLI GHKKENLKEFISGSLIVHEILEE VLQAEQDFQPFPTRVTVHWGKG NDQTFRGLLDTGSELTIPGDP KHHYGPPVKVG\AYGAQLL
7719	38087	A	7773	1	633	MTVDYRKFNQVVTTPMAA/AVP DAVSLLEQINTFPGTWYAAIDL ANAFFSIPVHEAHQKQFAFLPQ GYINFPALCHNLIRRELDFFLL QDITLVHYIDDILLIGSSEQEVV NTLDLLIHKRSKEAEHTAASRIR VSCLPEQKSHEQTLPWEQVPSS GDIKEYFPNAFVLLTASLQQQ DNTSQLQLTWKAPEDIKMSKT DADADEEIEALRG
7720	38088	B	7774	1	1431	
7721	38089	B	7775	75	947	
7722	38090	A	7776	6107	6706	MVVVFHKCLHYFHSTQLVISR YNAPTSEYFQALDLTWRALGT VGSAPPILPDLGGTNRRQPFPIL SHSGLHRNVLQPETDSQSEDRL PVTWLAWSACCQQQMVGGNP TRSKL*RTGSHYHLPGWEP*RP HFFHAGSLAWQWLCCSLEHSF GA*ELPCNPCKGWCLCPCHFIF YIFFNSFLSNCPICQLCNWHSSYFI

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7723	38091	A	7777	1	3179	MAEGKEEQVLSYTDGSRQREN EEDAKAETPDKTIRSHETYSLPR EWYEGNRPHDSITSQWVPPTR GNYGSTIQDEIWVGDHSGYVRP VPVPRSLNSDISYFGVGGKQAV FFVGQSARMISKPADSQDVHEL VLSKEDFEKKEKNKEAIYSGYI RNRKDDYDNHTGIDLVGTIIATI KGSNEEDTDTPLFIGKVRTLEFP FVNNGSAEIMLMPSNQQHKTDE KGRANLGVFSVFAPRGEHTLQ VKAIYNKSIIEGP
7724	38092	A	7778	281	1531	VRVLSPVEKELKLWKNTHKLL SYPTVGAATQLQNLNTAMGVI GSHGARGQVVALNRQRQGDL QPFTRTVTWVHGKG/NMQIFGGL LDTGSELTLPDPKHHCGPPV KVGAYGGQVINGVLAQVQITV GPQTHPVVISPVPECIIGIDILSS WQNPHIGSLTGRVRAIMVGKA KWKPLELPLPRKIVNQKQYCIP GGTEEISATIKEKDAGEVPIPT TFPLNSPIWPVRKTDGCWRMT VDYCELNQVVTPTAATVPDVV SLLEQINTSPGTWYADIDLANA VFSIPVHKAHQKQFAFSWQQQ QYTFTVLPQEYINSLGLCHNLI WRDLDGFLLLQNITLLVHYVD DIMLIGSSEQEVANALDLLVSM ASSRVPYDQLTEEEKARFTDGS ARYAGTTRKWTAALQPLSRIS

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7725	38093	A	7779	332	2159	RGYVFCSWKKTDGS/WRMTVD YCKLNQVVPIAAAVSDVVSL EQINTSPGTWYAAIDLANAFFSI PVHKAQQKQFAFSWQGQQYTF TVPWPWYINSPALCHNLIRRDL DCFSLPLDITLVHYIDDIMLIG\P RQLLACYWALVETECLTLGHQ VTI*PELPIMNWVLSDPSSHKG HEQQHSIIKWKWKWVHDWARA GPEGTTTPVISQWPHEQCGHGG RDGGYAWAQQCRLPLTKADL NTATAKRPIQQQRPTLSPQYG TIPQGDQPATWWWDYMGSL PSWKGQRFVLTGIDTYSYGFA YPACNASAKTAICGLTECLIHH HDIPHSIASDQGTHFMAKEVRQ WAHDHGIHWSYHVSHHPEAA GLIEWWNGLLKSQLCQLGDN TWQGWGKVQLQKVYYALNQHP IYGTVSPIAKIHRSRNQGLEVAP LTITPRDPLAKFLLPFPATLQSA GLEVLVPEEGTLPPGDTMIPN WKLRLPPRHFGLLLPLNQQAK KGVTVLAGVTLDYKDEITLLL HNGGKEEYAWNTGDPLGLLI LPCPMIKVNGKLQQLKPEALVP KGVFPPGDTTMLSLSWKLRLP SGHVGLLMPPLSQVQKGTVL
7726	38094	A	7780	84	202	
7727	38095	A	7781	1	551	RWGSHTVAQAGVQWCDHGSL QPRSPGVK*SSHLSLLGSWNHR HATTPG*FCFFSR!RSHCVAQA GL*LLTSNHPPALASQTVGITG VSHWTWPNTGSVLTATNKNL KFFHYAIKCLVRAKLISSRLLKI EERNKALSAPVVSVSIFDRVLR LLGYSASDWQPEFVETAVSNFV IYGIFRGQ
7728	38096	A	7782	1	678	MPACRLGLLATALIISLLFGFTI VSGTGAEKTVGVCPELQADQNC TQECSVSDSECADNLKCCSAGC ATFCSLPNGQLAE*FEESEESSL DTVSPFVVFQSISSTLRIE*ARA GDSSQ\DKEGSCPPGVTI*LFPSS GLC\RDQVPGGTAQCPGQ\MK CCR\NGCGKVSCVTAQFLSSSH HQAEQVRRDSFLPGPASGFQAH LPSPFFGTLYSLFGLTTSFSLSQP

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7729	38097	A	7783	1	1972	MAVNGCLEGPSNFLSCLFIVA LVGSESTHPLCLEQPATQETRY QLLQLRPAQRASWIGYAIAYHL LEDYEMAAKILEEFRKTQQTSP DKVDYEYSELLLYQNQVLREA GLYREALEHLCTYEKQICDKLA VEETKGELLQLCRLEDAADV YRGLQERNPENWAYYKGLEKA LK PANMLERLKIYEEAWTKYP RGLVPRLPLNFLSGEKFKECL DKFLRMNFNSKGCPPVFNTLRSL\YQDKEKC\AIIEKLVVGYETSLK SCRLFNPNDGKEEPPTLLWV QYYLAQHYDKIGQPSIALEYIN TAIESTPTLIELFLVKAKIYKHA GNIKEAARWMDEAQALDTAD RFINSQCAKYMLKANLIKEAED MSSKFTRGGTSAVENLNEIQCM WFHTECAQAYKAMNKFGEAL QKCHEIERHFIEITDDQFDHTY CMRKITLRSYVDLLKLEDVLRQ HPFYFK/EQARIAIEIYLKAS*QP PYR*GIKGTRRLDTAKLSDKEL KKLRNKQRRAQKKAQIEEEKK NAEKEKQQRNQKKKKDDDE EIGGPKEELIPEKLAKVETPLEE AIKFLTPLKNLVKNKIEHLFAF EIYFRKAAKMVYYLDPSSQKR AIELATTLDESLTNRNLQTCME VLEALYDGSLGDCKEAAEIYRA
7730	38098	A	7784	264	429	HRAAPATSDTQE*HRSNAFGEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEETLFSN
7731	38099	A	7785	1	681	
7732	38100	A	7786	415	692	
7733	38101	B	7787	1	2204	
7734	38102	A	7788	1	615	MPVDHPPIKAFSEKRTSQSVNM LAKTHPYNPLWAQLEWFKLLEI SPKSPINTDKFLKRLSVPGSDS CRVRMENVLASQVLHPG\QLM M*EGSGWAEARIT/V/CS*AANP *KWHPASLPLPW*CRVRMENV LASQVLHPGHADDVGGKWLG RSKDHRapeQQTRESGIRLPSLF PGSAEQPWRGNAQWHLWSKA LRGVFGMIPDSLLEYFHQSACK SSHFKPPQPLLYWTLVNFLIPFS LHSSTWFMWSSNQGIMCKEEV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, !=possible nucleotide insertion)
7735	38103	A	7789	3129	3197	TQNRRACSPDTEQLARQSGTYP VSLGQATVLEDASKAALPGLGPT LMAVTVVITTEAAVAIGCEAH SSREDFTNHQLWRRTVEGKKG EGKNKFMSSGVNTTVPLLKTS RKGPSPDSHLREKPSLEKVTQI GSFASPESDFESRMKKMEERVK ACGPSLEASEAADVAQDPQVS RSPFKPGFQENVCCPQNRLSEG DEGESDKGFAEDRGSRNDMAA DIAGQLSHAADLGTASHDDVT YAIKPTCWPGLDIIPSCL
7736	38104	A	7790	1	1069	MAEKEAGMSYMAEVLGFA VIIEAESLKRIRFFENFTVAEERS TDETFSLAETCSSNPAMVRK KIAISIIFSLCEKEEAQRNFQDFF FSHFPLFESHMNRLKSAIEKAMI SCRKIAESSLRVQFYVSRLMEA LGEFRGTIWNLYSVPRIAEPVW LTMMMSGTLEKNQLCQRFLKEF TLLIEQINKNQFFAALLTAVLTY HLAWVPTVMPVDHPPIKAFSEK RTSQSVNMLAKTHPYNPLWAQ LGDLYGAIGSPVRLTRTVVVGK QKDLVQRILYVLTYFLRCSELQ E/IPADLEWQSW*R*PAMVRRK KIAISIIFSLCEKEEAQRNFQDFF FSHFPLFESHMNRLKSAIEKAMI SCRKIAESSLRVQFYVSRLMEA LGEFRGTIWNLYSVPRIAEPVW LTMMMSGTLEKNQLCQRFLKEF TLLIEQINKNQFFAALLTAVLTY HLAWVPTVMPVDHPPIKAFSEK RTSQSVNMLAKTHPYNPLWAQ LGDLYGAIGSPVRLTRTVVVGK QKDLVQRILYVLTYFLRCSELQ ENQLTWSGNHGEGDQVLNGSK IITALEKGEVEESEYVVITVRNE PALVPPHPTTNSSRETQPLADR
7737	38105	A	7791	118	273	FSLSNLVQFFRVCNNDHYTKLH FCFLQAEVKASNFCIYDSLGH LGSHTVECIATDEHTLHLTSP MG*SQGKQFLHLRFSWACPGIP PHS

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7738	38106	A	7792	1	551	MQPELPIMNWVLSEPSSHKVG HQQQHSIIKWRYICDWAvgVG RESTTNGLAGWS\GTTWKHD WKI\NDNEIWGK\SMWIDLSEW SKTVKIFVSHESAHHIT*KSSAE EDFNNQWDGMTCSVDTTHPLS LTTSVIAKWAHEQSDHGGRYG GYAGAAQQHGLPLTKADLAMTT AECPICQQQRPSLSP
7739	38107	A	7793	1	782	MTKIQEPSTSVKFLGVQWSGA YQDIPSKVKDKLLHLAPPTTTK EAYLGL/FGFWRQHIPH/LGTEQ EKTLPQHVQAAVQVALFLEPYD PADPMVLEVSVADRDAIWSLW QAPISESQWRPQGFWSKALPSS AANYSPFERQLLAYYWALVET EHLTMGHQVTKQPELPIMNWV LSDPSSHKGCAQQHSIIKWKW YICDRARAGPEGTTTPVITQWA HEQSGHGRGGYTWAAQQQG LPLTKADLATATAECPICQQQR PTLSP
7740	38108	A	7794	65	230	
7741	38109	B	7795	1	2115	
7742	38110	A	7796	1	246	
7743	38111	A	7797	1	1293	MAAAACLDASGEARPGLRPPW SQQGRKQAGALPPTKLAGLLA QLQPAEAPDLGIPVLSATREDPL SPQARKCLLPLPGLSPCSQHLL WCRASCGRAWGPSRPSRVCTG LDTAVTPAPCRLSPLWTSGADK RGREASRGEGLSKWACRHPSA QTAWAVEGDRHRFLSRKGQIT GKTPSSQGQPEAWGLSCCPH TLHTSFFLDTGPLNGGTEKAVT QTGPKHAPCSPCGQQGGKGC GPSGTPDLGALRARAVTVGLCS SWHLQASGHHCIPQYLQQKLL VVHLVQPQPCFKPVVPSFRLQ MTIENMNHLKFIPHKDYTANRL VSGLLQLPSNTSLVIDETLL\EQ GQLDTPGVHNVNTALSNLITWQ KVDYDFSYHQMEFPCNI\KVFIT SEGRSLLPADVPDSLAPANST KHGGST*TAFSQRCCLPC

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7744	38112	A	7798	1	2555	MPSHLNQHQIHTKEKSYKCEE CGKSFKRSSNCTTHKRIHTGEK PYRCEECGKAFRWPNSNLTRHK RIHTGEKPYTCEECGQAFRSS TLTNHKRIHTGERPYKCEECGK AFSVSSTLNDHKRIHTGEKPYT CEECGRAFNCSSTLKTHKRIHT GEKPYKCEECDKAFKRHSSLA KHKIIHTGEKPYKTGSCILLQR YCWSTT*TIHFKK*S*EN/PGSC DLNTLRLKKDYQRVGNCKGQK SSYNGIHQCLSATRSKTCQYNK CGKAFLGLCSIFTEHKKIFSREKC YKCEECGKDRLSDFTIQKRIH TADRSYKCEECGKACKKFSNL TEHNRVHTGKKPYKCEECGKT FTCSSALTKHKRNHTGDRPYKC EECHKAFRWCSDLTKHKRIHT GEKPYKCCKECHKAFRCCSDLT KHKRIHTGEKPYKCNECGKAF MWISALSQHNRIHTGEKPYICE ECGKAFTYSSTLISHKRIHMELR PYKCEECGKTFKWFSDLTNHK RIHTGEKPYKCEECGKSFTCSS NLIKHKRIHMEVRPYKCEECGK TFKWFPDLTNHKRIHTGEKPYK CEECGKTFTCSSSLIKHCRSHTG DR/PYKCKECGKAFRWFSVALL NISKHKRIHTGEKPYICEECGKA FIRSSTLTSHKRIHMEERPYKCE ECGKTCIIHIGEKPYKCNECGK GFMWISALRKHKRIHTGETPYI
7745	38113	A	7799	212	461	TEEHLYSPHWKGCGRKVKRLF QVRRGRGWIQTRQPGSMVKEP PLSEAGAESHVSC/RQGDCSRPP SFPLSPERVTPWLWPDHSHTW

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7746	38114	A	7800	1	1398	AAAERELELLRASLEHQRGVSE LLRGRLRELEEAREAAEAAAG ARAQLRE\ATQTTPWSAEKAA QTESPAE\GPP*LRRARPDWPTE TRAVAPAG\ILKSIMKKRDGTP GAQPSSGPKSLQFVGVLNGEYE SSSSEDTNDSDGDSENGGAEP GSSSGSGDDSGGGSDSGTPGPP SGGDIRDPEPEAEAEPOQQVAQG RCELSPRLREACVALQRQLSRP RGVASDGGAVRLVAQEWFRRVS SQRRSQAEPVARMLEGVRRLG PELLAHVVNLADGNNTALHY SVSHGNLAIASLLLDTGACEVN RQNragYSALMLAALTsvrQE EEDMAVVQRLFCMGSVDNAKA SQTGQTALMAlISHGRQDMVIA TLLACGADVNAQDADGATAL MCASEYGRLLTVRLLTQPG\C DP\\$ILDNEGTSALA\IALE\AETG MKVAALL\HAHLSGGHPDTQSG VTPLAPQTANTW
7747	38115	A	7801	3	408	
7748	38116	C	7802	141	251	
7749	38117	A	7803	1	1173	
7750	38118	A	7804	451	853	LQMHRLLCGGHSLSGCGWHTAR GQELVGQCFL*GGGQLLGLQH PL/AENPTFQEYSLITSEAGLLEG RKKKNKTSRGPSGPATCPLGLP RTSPGATRPGPVS/HAAIASQRD SSRTRFSSSLDAIIARPYTPSA
7751	38119	A	7805	1	2950	MAASRLELNLVRLLSRCEAMA AEKRDPDEWRLEKVGVTYSVA SGRVLFQDFTEQFQVLLPKDAQ PCREVISTLLEKMKIDKRNYQIG KTKVEPGV/EAWPLRRVRRQPD QRQGLGAHRAGEAPGTRGDAR PVHRGPLPQVGCCQPHSGAPAG AADRPRSSSQAGELPHPRHHRGA EAVAAGAARAPHDLRTVRLP PSRRAAGEAGAAGCH/RMPSW STFKPPTTPWRDSSSTLSSNHP LTASGCAGWPCSRMST
7752	38120	C	7806	398	415	
7753	38121	C	7807	13	81	
7754	38122	B	7808	1	972	
7755	38123	B	7809	1	1803	

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7756	38124	A	7810	1	929	IAAAPELLERSGSPGGGGGAEE EAGGGPGGSPPDGARPGPSREL AVVARPRAAPTPGPSAAAMAR PLVPSSHKALLLELKGLQEEPV EGFRVTLVDEGDLYNWEVAIF GPPNTYYEGGYFKARLKFPIDY PYSPPAFRFL\TKMWHPNIYETG YVCISILHPPV/DTDPQSGELPSE RWNPT\QNRDHSS*V*SSLLE RRPNTFLRPANVGRLPWMLQG SWEREQGGRIRELHRTSFRKQV LGTKVDAERDGVKVPTTLPEY CVKDQGRRRAPDEGSDLFYDDY YE\DARVE\EEADSCFGDDEDDS
7757	38125	A	7811	2	296	LSLSFFFVKAHFYVKSMHLHSKD ASGISGMDFYVVQ*FSWQTAY AGEVGRWLSPALTERGSGQTL* TWCWRVFCVCLE\GHMWVTEA YVTVKH*NYSKVK
7758	38126	A	7812	397	410	SPGEI*G*VPPLLG*GVLLYQPP LFIWEAPLLPDLLQQ*KLYSL WLNKALGK
7759	38127	A	7813	2	739	ELCALVFGVNTFFATIVKTIITFI VSDVRLGLPVRKQDSVVVFL DCPSIW*LRYIDLLILRVHLQIH LWGLRGRRAEFKHI/RSAEEKK LTRIPSVNGE*TGKSPAPANS\PP RGARDMWRTGRPAPRRPLVGG PSPSDRGPASTTSPELAVGAVN GGPSSANISRGFWQQSFHGNMC WFCAEPGVAGVPFTANIAGTEP GGLGQGRQCSLATQCHKPELK LQAKPAFPFSFSLSLFFFLKHIL

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7760	38128	A	7814	594	2868	CWTSRNRRPIP GSCHPMELPRPF RGKAKVQNHQLVHHNKALIN RGSLTFWLDDGAIQAWHCPVK TYYQYTPVSSKAMY/DAFWNG/ KFRDC/AFHSWLNEDPFVCEYQ GQSSDLPQPPVNAGGGSGGGS GGGSEGGSEGGSEGGSEG GGSEGGGSGGGSGSGDFDYEK MANANKGAMTENADENALQS DAKGKLD SVATDYGAIDGFIG DVSGLANGNGATGDFAGSNSQ MAQVGDGDN SPLMNNFRQYLP SLPQSVECRPYVLSAGSEIGAA CASRSGYDNKGVRD IGYTDCK RSEDLDPLRHQILGGKKAIQFTL QGFPTLPEGAPAGNSGSLAVHK TAQSSYRHALLI LTPMSGTRF PPIPGPVNIRVFPFAPSSECRIC YSWSWVPGPSPVHCQSDGSVP IP SYAPLASQYSSFLFFRNRQPYA PYDYL SVMTPSRTLREQIRIYA PSAPRLPPPEVYCSNSTIVVRN NPSGPTPGFAGGTLL EGRSGGP FRFYAKRAKGDV LKPFSNLPL QTLIRFMVDIACGM EYLSSRNFI HRDLAARKCMYEFWRTRGWE TAAA YYGGTTFFRKESQKLQ QSAKKRDAELANGALGIELNN DYT LKKVMKPLITSNTV DTEIE RANVF KMNGKWLFTDSRGSK MTIDGINSNDIYMLGYVSNSLT GPYKPLNKTGLVLQMGLDPND
7761	38129	A	7815	2	474	RRFVSADNCRS LRWKS LYTPLD ADASV LISTGIDATQT NHGRQH LDETQ VRVFGQHLMQGSY TTQ DGRSDVAISCSC KLEMCAQQSY DQLLA ASTENWRQWWQKRRIT VN GG/GSSPASDADQ TPAPGFR RDVGDRDWFAWRQCLLKSALT RRRPVAYIVISSAM SGSC LPKQS D
7762	38130	A	7816	302	409	
7763	38131	A	7817	199	359	ARRQQVSVKS YRWE EEDQHCG ELQGSE*VSDGLFKPP*S*HGW VEEERQKEQN
7764	38132	A	7818	1853	2032	VKQST ALLPHAVAC*PKVISSG ARGLKSILV LIRIVVMMVSMLP QLALSGWGRFRVLPG

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7765	38133	A	7819	118	445	AAGGEPGDAPWVPGVWEPPES VCRGPPPSSTFPHPVLSTFGASG PENSRDCSWLSPQH*AA*VASG NNGPQAAQGSLSGIPDAATLSG I*RASILHVSVVEIISSPGFR
7766	38134	A	7820	1	770	MRVLGIETSCDETGIAIYDDEK GLLANQLYSQVKLHADYGGVV PELASRDHVRKTVPLIQAALKE SGLTAKDIDAVAYTAGPGLVG ALLVGATVGRSLAFALGRFGDP CTPYWRASVSARCWKIPAPNFR CALLGSAAYAVNHGTGLSKKP TTLGSDHSKTPAQLAKRAGEA RRNGWQGALFPWESARSGEEE TPVICRH*HSHRAAAKSGLGA GGTSSGGRYRLGGYSILADHGG *KFHCA*RHGATSGDGKVLD
7767	38135	A	7821	3	834	VGRVEIADQYQDLAILWNCLG SDHASSRQRRPFRGKAKVQNH QLVHLQQSSHQPWLPHFLAG* WGDSGLGGGS\EGGGSEGGGSE GGGSEGGGSGGGSGSGDFDY KMANANKGAMTENADENALQ SDAKGKLD SVATDYGA AIDGFI GDVSGLANGNGATGDFAGSNS QMAQVGDGDNPLMNFRQY LPSLPQSVECRPYVFGAVRHDV RRIRVTGVTRVTPPEEVDTSVH SRGAHIRIRSGFAPKRSVRVTTD TCIKRNSTCGVKSLSLWDGGGF
7768	38136	A	7822	1	1044	

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7769	38137	A	7823	3	1472	GVVGERAGMARPGRPREGGGS G/GYSRPVPAGGPAGP*RGRTRI/ SGLANGACPVVFQFLTELTRLF QKCRTSGSVYITLKKCKQREGS RAMLPGFPTPVSSKAMYDAY WNGKFRDCAFHSGFNEDPFVC EYQQQSSDLPQPPVNAGGGSG GGSGGGSEGGGSEGGGSEGGG SEGDGSEGDSGGGSGDFD YEKMANANKGAMTENADENA LQSDAKGKLDSVATDYGAID GFIGDVSGLANGNGATGDFAG SNSQMAQVGDGDNPLMNNFR QYLPSPQSVCRPYVFGAGKP YEFSIDCDKIKILRGVFAFLYYV ATFMLPVIANIAIPQKRPFMQQT RCEVQCREDIEVQKLKSYDKLL ASINKPGVNGWQKRITVNA GEAHDQQALDYALYHLRIMTP AHDERSSIAAKGLTGEGYKGH VFWDTEVFLLPFHLSPTVAR SLLRYRWHNLPGRARRKRDGN GWAGGAPISVGKARAAKK
7770	38138	A	7824	601	853	
7771	38139	A	7825	2	644	MAQQ/RKFQAHKPAKSCTAA/ A/ASEKNRGRKGGRVIAPKKA RVVQQQKLKVSLCCSGWS*T PGLKASSRLCLPKCWDYRRDTL WLFLSATFICRWNLRKSESGKK IEHDVVMKA\SSSLP\RKALLK APSRRNGAAA\TSSKTPSLRT AGPQLQQHPTPLPSIWGPLQV NSHRLSLFRMRTLSPSDWASPR HSSGGPKGAENPGNDQGRYSH
7772	38140	A	7826	1	2616	
7773	38141	A	7827	1	504	

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7774	38142	A	7828	1	1068	MAEIQHKTIRPLLEGRDLLAAV KTGSGKTLAVLIPAIELVVKLKF MPRNGTGVLILSPTRQLAMQTF GVLKELMTHHVHTYGLIIGGSN RSAEAQKLANGINIIVVTPGRLL DHTQNTPGFMYKNLQVEDLAR ISPKEPLYVGVDENKANATVD GLEQGHFVCPESEKRYLLLFTFL KKNQKKLMVFFSACMSVKYP YGLLKYIDL/PVLAJHGKQKQN KHTTTFF*YCNADSGTLLF\QLE KLIKNYFLHKSAQETYKSYIR AYDSYSLKQIFNINNNLNLPHIAL SFGFKLPPFVDLNMNSNEGKQK KQGGFGYQTKKVEKSIIFKHIS KKSSAAGSSLTQEMPVFILNNF
7775	38143	A	7829	3	1851	
7776	38144	A	7830	1	905	MVFDALKLTGWRFEDTVVQSN MKHQPFIVVNKHNVQVEYKGE TKSFYPEEVFFMVLIKMKEIAET YLGKTVTNAVVTVPAYFNDSQ HQATKDAGTIVSLNVLRIISKPT AAATAYRQKGIDFNTSIFHALF EELNAYLFHGTLDSEKALGN AKLDSQIH DIVL/GPFEQGRH* MYGPGS*EIQS*R*EAEGQDVIQ EFS*KLCIRYESSC*R*ETSRQD* R*GQTEDS**GY*NYQLAG*ES DSEEGRISTSKSGESLQPHNYQP VPEYRRHTRRNAW GIP*WWSS LCWSFPRAPIEAD
7777	38145	A	7831	2	886	ARGACSSWVFCGFLRYWSQAY TPATMSKGPAVGIDLGTTS CV GVFQHGKVEIIAN\DQGNRTTPS YVAFTDT\ERLIGDAAKNQVAM NPTNTVFDAKRLIGR\RFDDAV VQSDMKHWPFMVVNDAGRPK VQVEYKGETKS FYPDEVSSMV LTKMKE\VAEAYLG\KTVTNA\V VTVP S\YFNDSQRQATKDAGTI AGLNVLRI\NEPTAAAIAYGLD KKVGAERNVLIFDLGGTFDVS ILTIEDGIFEVKSTAGDTHLGGE DFDNRMVNHFIAEFKRKHKKDI SENKRAVRRLRTTK
7778	38146	A	7832	2	375	ASIEIDSLYEGIDFYTSITRARFE ELNADLFRGTLDPVEKALRDA KLDKSQIH DIVL VGGSTRIPKIQ KLLQDFYEAVAVYGA AVQAA IL SGDKS\ENV\QDLLSL\DV T\PFP LGIETAGG\VM TVPH

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7779	38147	A	7833	1	218	
7780	38148	A	7834	508	883	YYHSYQADT//LGGEDFDNRM VNHFIAEYKRKHKKDISENKRA VRLRLTACERAKSTVSSSTHAS TEIDSLSEGIDIYTSSTCASFEEL NADLFLSTLDPVEKALRDAKLD KSQIHDIALSINPDEAVAYGAA VQAAILSGDKSENVQDLLLLDV TPLSLGIETAGRVTDLIKHNTTI PTKQTQTFTTYSDNQPGVLIQL YEGERHTMTKDDNLLDKFELTGI PPAPRGVPQIEVTFDTNSNGILN VSAVDKSTRKKNKITITNDKGH LSKEDIEYMVQEAEKYKAEDQ KQR/D/KVSSKNSL
7781	38149	A	7835	1	194	
7782	38150	A	7836	1	1482	MVFDAKRLIAHRFDDAVVQSE MKHWPFMVNDAGR PKVQVE YKGESKSFYPEKVSSMVLTNM KEIAEAYLGKTVTHAVVAVPA YFNDSQRQATKDAGTIVGLNV LRIINEPTAAAYGLDKRHRSSLP ILTASL\GAGSGL*STQA/SIEIDC LYEGINFCTSITHARFEELNADL FRGTLDPVEKALRDAKFDKSQI HDIVLAGGSTRIPKIQKLLQDF NGKELNKGGINADEAVAYGIAV QAAILSGDKSENVQDLLLLFDVT PLSLGIETAGGTQILTTYSDSQP GVLIQAYEGKHAMTKDNLLG KFELMGIPPAPRGVPQTEVTFD SDANGILNVS AVDKSTGKENKI TITNDKGCLSKEDIERMVQEAE KYKAEDEKQRDKVSSKNSLES YAFNMKATVEDEKLQGKINDE DKEKILDKCNEIIIWLNE NETAK KEEFEHQQKELEKVCNP IITKLY QSAGGMPGRMPGGFPGGGAPP SGGASSGPTIEVD

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7783	38151	A	7837	2	2221	PRVRPRVRSPAALGFFVASFVIG ARPTPQQPWSKGPAVGIDLGTT YSCVGVFQHGKVEIIAN\DQGN RTTPSYVAFTDTVERLIGDAAKN \QVAMNPTNTVFDCQTV*LDGR FDDAVVQSMDKHWPFMVVND AGRPKVQVEYKGETKSL\YPEE\ VSS\MLVTKMK\EICRSLTLGKT VTNA\VVTVPS\YFND\SQRQAT KDAGTIAGLNVLRI\NE\PTAAA IALQKFRQKRGAERNVLIFDL GGGTFDVSILTIEDGIFEVKSTA GDTHLGGEFDNRMVNHFIAE FKRKHKKDISE\NKRAVRRLLRT ACERAKRTLSSSTQG\SIKIDSL* EGIDFYTSITRARFEELNADLFR G\TLDPGEKAL\RDAKLDKSQIS *YLSWVGGSTSYSPLQLQKSCCQ DFFQWEKELELRSINPGWKAV/ AFIGAAVPGQPFLSGRQVLENV\ QDLLL\DVTPPLSPWVLKTAGG VHDCPPSKRNTTIPKTQQTFTT YFWTTQPGCGLFRFYEGRALP WTKDNQPALASFELTGIPP\APR GV\PQ\NEVTFDIDANGYTPWSL AVDKKYGKKRTKITITN*QGPF *AREDIGTYGSREAEETVKLEG GGRQEGTRVSSNDFT*GPMPFN MKSTLLKDEKL\QG\RINDEGQ NRRFLDQV*LKLSNWL**ESRL LEKEEFEHHQ\KELE*VCNP\IIT QAGTQSARRHCQGGNPWGAFL
7784	38152	A	7838	3	757	PFPGGRVVRLLHPVILASTVDSY ERRNKGAAARVIGTLLGTVNKH SVEVTSCFSVSHNESDEVAVDM EFAKNMYEL/H*KVSPNELILG W\HDITEHSVLIHEYYSREAPNP IHLTVDTSLQNGHMSIKAYVST LMGVPGRIVGVFTPLTVKYAFY DTECIRVDLIMKTCFSNRVVG LSSDLQQVGGASARIQDTLSIVL QYAEDILSGKVSADNTIRKVGH FLMSLVNVQVPKIVPDDFETMLH SNINDLLMVT
7785	38153	A	7839	1	1821	
7786	38154	B	7840	16	1305	
7787	38155	A	7841	1	359	

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7788	38156	A	7842	2	1085	GVAPWGRGRAAPRCASATVGG SGIGRLR\GITSSGL\KMDNKRR LAYAIIQFLHDQLRHGGLSSD\A QESL\EVAIQCLETAFGVTVEDS DLALPQTLPFEEAAATGK\EMP QDLRSPARTPPSEE\DSAEAERL KTEGKPQMK\VENP\EAAVHF LTEKPFELNPSQRPSYFCNRAA AYSKLGNYAGAVQDCERAICID PAYSKAYGRMGLALSSLQQHL\A EAVAVYYKKALELDPDNETYKS NLKIAELKLREAPSPTGGVGSF DIAGLLNNPG\FMSMASNLMMNN PQIQL\MSG\MSGNNPLETP GT\SPS\QNDLASLIQ\AGQQFAQ QMGSVGVIPRVV**SAQESSIRSR TPSASNDDQQE
7789	38157	A	7843	225	398	FHIDYTNSCIFHQNCLICSNRNF RQSNVVVMICHY*TLQEIKTFC* MNSSLWSIIIF
7790	38158	C	7844	162	269	
7791	38159	A	7845	273	501	HKDQPIQTENDHPSTNFSFVLK LHDPLLNEMDLIVWVSF*Q*SC FYLVHPNCCSPLV*HP*SENPKF SNEYFLRVS
7792	38160	A	7846	1	867	
7793	38161	A	7847	185	1325	EEQQTNLASKKKSCIMLEKTEN KIRLVIVSEEEKKVKLKRMP*K MTVRAHHGISRTPHSWVESN\Y YWDICDQWMS/EPVGYMPQCQH CQVAKNTVIVAPKQHLLQGGKI PWSLVTVDLMGAFSYKPQKS/N VYAIIMTDLFTKWIVILPLCDVS ASEVSKAIINIFFLYGPPQKIIID QRDEFIQQINIELYRLFGIKQIVI SHTSGTVNPTESTPNTIKAFLSK HCADHPNNWDDHLSAVSFAN VTHLEPTKNTPYFQMFKVEKNP LYYLPETSDLHEVDGDNTSMF AKILDIAKEADKIMENKTTSLG QMENNLLDELNKSKIIVKKKPK QLNPFHLKVGHGSFKTKEKLV GRMVVFQSNGVGPLCHRLY YRKWMCCP
7794	38162	A	7848	2	455	MADRLTQL\QDAVNSLADQFC NAIG\VLQQCVPPASFNNIQTAI NKDQPANPTEEYAQLFAA\LIA\A RTAKDIDVLIDSLPSEESTAALQ AASLYKL\EEENH\EAATCLGG MLFIEGDMILLGGRYKGALA\DI AQSQLEGGSGYP*ASLFPDS

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7795	38163	A	7849	229	560	
7796	38164	A	7850	1	1077	
7797	38165	A	7851	25	690	WPSDEAEGYSEHFVEFKDVR KRPQHTIMAGNVVTGEMVEE LILSGADIHKVGIGPGSVCTTRK KTGVGYPQ\LSAVMECANAAH GLKGHIISDGCGSCPGDVAKAF GAGADFVMLGGMLAGHSESG GELIERDGKKYKLFYG\MSSEM AMEEVLLGGVAEYRTS\EGKT\VEVPF*REMLEHTIPRHP*GGIR S\TCTYVGA\AKLKRR*ARTNYL HPEVHPAR
7798	38166	A	7852	768	1857	EGGHFGQQGADSAAPFGSASI LPIKLDVHPHDGRRAEKSKPG GNPQRQLYCQPPAGCLPGAVY RPRRSRGARMYSRYSPAERRNP DQRAGYCQAPDRLRFSRADD RSRWRHVFHGTSRHAGDRAV RPPPSSAAEALPVALPVFQ*PTA DQ\VLFPSLIAACYNNHQNKIIL EQEMSCVLLATFIQTRAQQRKY KRNNNRGIPRESTAREQARHNA NKAQQPRKHARNGASPAQQRK NRAAARDKDEKPAQQKDKAR QSAPEKKNRAIRGNTNSREQAAK AERNRRQRGGQKGAQGGQHR EEAGEPTYVDEKAQAATSPPPQ TPHPAPDHDDAEDHRTDTNR NAHQPKVYTHKDPTNESR
7799	38167	A	7853	1403	2028	RRIQTNGRTFHAGGPSRGLPE ELGKDREKETSSRTL*QFQPN AKSPGQNLRESMNPVC/MTQQ ARRLQRLAKDLLKQVQVQDQSG SWANNKVSALDRTLGEITRILE KERSRRGKGPSKEDLEGAAN/G VRRTM/WMSGNLVKESQPHPT HRPNILT*YPSIFP*RSTLLTLWL KVQLQQKL*KMEKSGKKIKKK PKR*KPG*TSGTLNTL
7800	38168	A	7854	1	675	

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7801	38169	A	7855	2	1110	AQEEEAKVNEIAFINTLEAQNK RHDVLSKLKEYEQRLNELQEER QRRQEEKQARDEAVQERKRAL EAERQARVEELLMKRKEQEARI EQQRQEKEKAREGAARERARD REERLAALTAAPRSYGRVTEK NSAQA**KYSKAH/RNRLNKEK KKLLS*AVGDMQILIMPPN*PL YERKKQCSLCNVLISSEVYLFS HVKGKHKHQAVRENTSIQGRE LSDEEVEHLSLKKYIIDIVVEST APAEALKDGEERQKNKKAKK IKARMNFRAKEYESLMEVKNS GSDSPYKAKLQQLAKDLLKQV QVQDSGSWANNKVSALDRTLG EITRILEKENVADQIAFQAAGGL TALEHILQAVVPATNVNTVLRN
7802	38170	C	7856	65	425	
7803	38171	A	7857	1	1131	
7804	38172	A	7858	953	1311	FLFFIFFNYFFFGRKCPLL VAP RLEVQMAVILGSLQ\PSPPGFK* FSLPQPSPSSWDYRHAPTHAQP NFVFLVETGFHHIGQAGLELQT SGDPPTSASQTAGITGVSHRAW PGTILFLK
7805	38173	A	7859	2	857	FVDIFQRWKECRGKSPAQAE LS YLNKAKWLEMGYVDMHVVR GRDGCEYSLGLPTGILIFEGAN KIGLFFWPKITKMDFKKSKLTL VVVEDDDQGREQEHTFVFR LD SARTCKHLWKCAVEHHAFFRL RTPGNSKSNRSDFIRLGSRFKFS GRTEYQATHGSRLRRSTFERK P**TLSIPETFNVQSKQPSDSSPA LLLKQIQKS/NNYQPPISILISIPS PAPGGILT\PQMSGHPFQDDRSH WKASASGDDSHFELCPTTQNPE GTLGGMPKYDVSEINVMTAL

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7806	38174	A	7860	1	936	MELTHLQPHEPQEDVHAVGLL LGLREQHHMVSEGPRQQSWQE ERTELAAVSRLLFNMYPLLIHK NHASPGIPNLLLHPRGLRAITIA VFGKQNTYIRLEPFKINVLEQIT KHIKLQCGEHNFPEQEIQEGK SHQNQHEAHFVVELCKYFLCQ EYLPQSITILTTYTGQLFCLRKL MPAKTFAAGVRVHVVDKYQGE ENDIILLSLISNRICVALSRAKKG MYCIGNMQMLAKVSLWSKIIH TLRENNQIGPMLRLCCQNHPET HTLVSKASDFQKVTEEGC/MLP CEFRLGCGHVCTRAWHPYDSS
7807	38175	A	7861	218	580	
7808	38176	A	7862	3	1636	
7809	38177	A	7864	24	386	
7810	38178	A	7865	2	999	GRVGFFFAGNPGSDSFGGLLLG LTPVLRWVADGGTIPKRHE\LV KGPKKVEVKVDK\ETELVAQWN YCTLSQE\KLRRPIVAL/CNFAD FYNK\EPVIEFLDKSAEKGS/SG RQASHIKTH*RIVDRAESFPDNP CPGKGIGKN/D*KVDKHDDLQA GASSSSPVGGPGRWNGRHRFL PSGGCGLCFCF*AEPWKEIKAG V\CHTCGAGLSRRMMIIVLNGT KEDV DLLKTMMEEERRL*SEAG KENKENPRQQSLFQNQDVRSERS PRAIKS*DRGSLKKPAFDSREK KTNLAPKSTAMNESSSGKAGK PPCGATKRSIADSEESEAYKSLF ITHSSAKR
7811	38179	A	7866	1	559	MGCDGGTIPKRHELVKGPKKV EKVDKDAELVAQWNYCTLSQE ILRRPIVACELGRLYNKDAVIEF LLDKSAEKALGKAASHIKSIKN VTELKLSERALKEIKAEVCHTC GAAFQEDDVIMLNGTKEDVDV LKTR\WRREG*ERRGKKTKKP KAAEVCFQNPDVSGRKPGPS KVKTREALKKPSP
7812	38180	A	7867	188	368	YVACMPAWPNVTVANQLFNV YFPARDMTVPSSPG/QPVVDQL STQQQARRDALEVVGYEDS
7813	38181	A	7868	179	554	LRPADPRSLVPGWALGLGPGAI LGPGRVTFPGGRPPPPTHPPSLSF PPGGRQPLWVPALPAEEGRE/R LGREREERGRKAGAGMA*AGL VL*CLQLQVQGQPLGGSWLST RLRSPRCHPWLLRRHLP

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7814	38182	A	7869	2	131	YKSELEEQLTSVAEEMRARLSK ELQA*KDRLGENMEKVRGRLV KYRGEVQAMLGESIEELRVRLA LY\LRKLCTGFLRDADHL*RPA GREYGESKR\TLG
7815	38183	B	7870	1	3639	
7816	38184	A	7871	279	1077	IQHPLSADDFRVNCETEPAM/* HAVENDIHLCELQLETEIQAF KEELL/FMKKNHEEEVKGLQAO IASSGLTVVVDAPISQDFAKIMA DIWAQYDEVAQKNREELDNNR SQQIEESTTVTTQSTEVGAAK AMLTEL'TRTVQFLEINLDSMRN LKASLENSLREVVARYALQME QLNGILLHLESELAQTWAEGQC QAQEYQALLNIKVKLEAAIATY RRLLEDGKDFNLGDTLDCSNS MQTIQKTTTRQRMDGKVLSET NDTKLRH
7817	38185	A	7872	712	855	
7818	38186	B	7873	50	788	
7819	38187	A	7874	201	372	ICQMILKRRVLS*TQKHQATHG WNSAYSLLTAPFPVSCQDHLC*P L*AEAQISIKEEP
7820	38188	A	7875	3	323	FFFETEFHSVAQTGVQWHDPS PQPPPPRFK*LSRPSLPSSWDYR HVPSHPGNFLHFQ*KRGSTNQA GLELPTSGDLAFA\SPSARITG VSHCARPNYQCFLEFKY
7821	38189	A	7876	1	911	MLLTAGGALFFPGLFALCTW ALRRSQPGWSRTDCVMISTR SSVHAVLATGSGIVIIRSCDDVI TGRHWLAREYVWFILPYMIYD SYAMYLCEWCRTDQNRA TSLRNFLSRNRLMITHAVILFVL VPVAQRLRGDLGDFVGCIFTA ELSTPFVSLGRVLIQACMNE ESLKQQHTLLYKVNGILTGNF FPCR\LLFPFMV\WSYGRKKGL SLVPSTLQHPILTA\TWANAFPR* APQIYWFCLLQ\KA VRLFDTP QAKKDGG*MLLGVRRSLTPAAS STQHSMMDQIVPWVASDFGY
7822	38190	A	7877	2	283	SCHCTPAWILALSPRLECSGAIL AHCNLHLWG*SDSPASASRVA GTAGAHCRAWLIFCVLVEMGF HRVAP/GLV LNS*AQTIRLPRPP KVLGLQA

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7823	38191	A	7878	1	1042	PKVRSPRIKRLAPAPAF\VRKQE LKKIVDP\LL*KKS*EFGHLDRD QPQKRPPPLL*KWPR\YIRV\QG RRAILYK\RLKGPFCDYPGFTQG PGTPQTS*SSLKL\AHKYRPRD KAQRSKQRILLA\RAEKKAAAK GAVPQERAHPVLragV\NPVSP PLVGEQEKLSQLVVI\HDRGSPS ELVVFLPALG/RVKMGPVYCIIK GKGKTGDGLVHQKALHPLSAF TQ\VNS\EDKGAF/ALKLVGSYQ GPNYNDRYDEVRGSTQNTVIH KSFSQITGWNLN*EVLSDDQLG TAKQN*RN**P*KSQKTVSQAN CLFLSFQIRRHWGGNVLPKSV ARIAKLEKAKAKELATKLG
7824	38192	A	7879	3	472	GRGVAYRGPSRGTGPGRGDE RLQHGGG\SREGPPAAPAAAAP GYGQSCCLIEDGERCVRPAGNA SFSKRVQKSISQKKLKDIDKSV DLFQLQVNTLRRYKRHYKLQT RPGFNKAQLAETVSRHFRNIPV NEKETLAYFIYMVKSNKSRDQ
7825	38193	A	7880	3	638	GRGVAYRGPSRGTGPGRVR*T ASARRRTAAKGPPPPQLPPPRA TAKSCCLN\EDGERCVRPAGNA SFSKR\VRKSISQKKLKDIDKS VRHLY\NCFDHK\NFIQ\SVRNKR KKEDQVYDGRENS/SPSTDIDP EVD\LFPACQVNT\LR\RYKRH* QVARPRPGFNKAPVSRQL*VDT FRNIPVD*KETLALLSSSMVKSN KSRLDQKSGGWQAA
7826	38194	A	7881	1926	2448	DFAIVITTRKQLTKYNAAHSK QAITKHFSPKISDLILCLKKIM NRHFSKEDIYAACKHMKKCSP SLAIREMQIKTTMRYHLTPVRM AIKKSGNNRCRRGCGEIGTLH CWWDCCKLVQPLCKSMWRFLR DL\DPAPILLGIYPKDYKSCCYK DTCTRMFIAALFTIAKTNQP
7827	38195	B	7882	446	625	
7828	38196	A	7883	1	1875	

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7829	38197	A	7884	31	809	KPRLENYVKNAEASGADAINW KKGY/LVMEDEMNEMKREGKF REKRIKRNEQSLQEIWWDYVKRP TLHLIDVPETLNAHKRKQERSK TDTLTSQLKELEKQEQTTHSKAS RRQEITKIRAELEKIEETEKTTLQKI NESRSWFFERINKIDRPLARLIK KKREKNQIDAIIKNDKGDITSDP TEIQTIREYYKHLYANKLENL EEMDKFLDTYTLPRLNQEEVES LNRPITGSEIVAIINSLPTKKSPG PDGSTAEFYQRYKEEL
7830	38198	A	7885	1	2142	MIILIDAEEKAFDKIQQQPFMLKTL NKLGDIDGTYLKIRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLNFNIVLEVLAQAIRQEKEI KGIGLGKEEVKLLSLFADDMLY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGERHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIRQKKEIKGIGLQ KEEVKLLSLFADDMIVYLENSIV SAQNLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNP CSRIGRINIMKMAILPKVIYRFN DIPIKLPMTFTELEKTTLKFIW NQKRCIAKTISSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFDNKW CWENWLAIKRKLKDPLTPYT KIHSRWIKDLNVRPKTIKTLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWVDVIKLKSFC KETTIRVSROPTEWKIFAIYPS DKGLISRIYKELQIYRKK\TNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM

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7831	38199	A	7886	209	3816	QGRPTFRFRKYREHHKDTPREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTEIQTIREYYKHLYANK LENLEEMDKFLDTYTLPRLNQE EVESVNRPITGSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKPGRDTTKGNFRPISLMNI DAKIL
7832	38200	B	7887	1	3570	
7833	38201	A	7888	2	1624	
7834	38202	B	7889	67	3156	
7835	38203	A	7890	1	1416	MILIIDAEKAFDKIQQPFLMLKTL SKLGTDGTYLKIIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLNFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLKLISNSFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRICKYLGQLTRD VKDLFKENYKPLLKEIKEDETNK WKNIPCSWGRINIVKMAILP\RD DIDQW/NRTEPSEIMPHTYNYLI FDKPEKNKQWGKDLSLFHKWC WENWLAVCRKLKLDPLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDKWDLIKLKSFCATAKE TTIRVNRQPTTWEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHMKKCSSSLAIREMDIKTTMR YHLTPVRMAIKSGNNRCWR GCGEIGTL
7836	38204	A	7891	1	1932	

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7837	38205	A	7892	1	2347	MELKTKARELHDECTSLSRFD QLEERVSVMEDEMNEMNLPTK KSPGPDGFTAEFYQRYKEELVP FLLKLFQSIEKEGILPNSFYEPSII LIAKPGRDTTKKENFRPISLMNI NAKILNKMLANQIQQHIKKLIH HDQVGFIPGMQGWFNIRKSINV IQHINRTKDKNHMIISIDAEKAF DKIQQHFMLKTLNKLLEVLA RAIRQEKEIKGIQLGKEEVKVSL FADDMMIVYLENPTVSAQNLLKL IGNFSKVGKJNVQKSQAFLY TNRQTERQIMSELPFTIASKRI KYLGIQLTRDVKDLFKENNKP LKEVKEDTNEWKNIPCSWVGRI NIVKMAILPKVIYRFNAIPIKLP MTFFTELEKTTLKFIWNQKRAC IAKSIFSQKNKAGGITLPDFKLY YKATVTKTAWYWYQNRDIAQ WRNTERPSEIMLHIYNYLIFDKPE KNKQWGKDSDLFNKWCWENWL AICRKVKLDPLTPYTKMNSR WIKDLNVRPKTIKTLEENLGITI QDIGVGKDFMSKTPKAMATKA KIDKWDLIKLKSFCATAKETTIRV NRQPTTWEKIFATYSSDKGLISR IYNELKQIYKKKTNNPPIKKWAK DVNRHFSKEDIYAAKKHMKKC SSSLAIREMQIKTTMRYHLTPV RMAIICKSGNNRKIQ/GGIWCD RIL*R*TTCRVAKEIQSL*RRI/W KRLQRTLSIPVLDAV*PPMF*AS
7838	38206	B	7893	1	1710	
7839	38207	B	7894	1	2265	
7840	38208	B	7895	1	2142	
7841	38209	A	7896	1	1791	
7842	38210	A	7897	1	1878	
7843	38211	A	7898	1	2091	

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7844	38212	A	7899	1	1751	MHSIDAEKAFDKIQQQPFMLKTL NKLGIDGTYFKIIRANYDKPTA NIILNGQKLEALPLKNGTRQGC PLSPLLFTVLEVLRALARQEKE IKGIQLGNVEVKLSLFADDMIV YLENPIVSAQNLLKLISKFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRICKYLGQLTR DVKDLFKENYKPLLKEIKEDTN KWKNIPCSWVGRINIMKMAILP KVIYRFNAIPIKLPMPPFTELEK TTLKFIWNQKRARIAKSILSQK NKAGGITPPDFKLYYKATVTKT AWCWYQNRDIDQWNRTEPSEI TPHIYNYLIFDKPEKDKQWGKD SLFNKRCWENWLAICRKLKLD PFLTPYTKINSRWIKDLKVRPKT IKTLQENLGFТИQDIGMGKDFM SKTPTAMGTSDKDIDKWDLIK KSFCATAKETTIRVNRQPTKWEK IFTTYSSDNLGLISRIYNELKQIYK KKTNNPPIKQWAKDMNRHFSIE DIYAAKKHMKKCSSSLAIREM QIKTTMRYHLTPVRMAIIKKSG NNRNHLDFKHIRILGICYL/D*KI YQP*LHLVSRNRKPEKLSPKQA

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7845	38213	A	7900	I	2540	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQPDLDIYGTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITSYLSDHSAI KLELRIQNLTQNHS TTWKLNNL LLNDYWLHNEMKAEIKMFFET NENKD TTYQNLWDAFKAVCR GKFIALNAHKRKQERSKTNTLT SINKIDRPLARLIKKKREKTQID AIKNDKGDIITDPTEMQTTIRE YYKHLYANKLENLEEMDKFLN TYTPLRLNQEEVESLNRPITGAE IVAIINSPLTKSPGPDGFTAEFY /HELIKENKIPRNPTY/RGCEGP LQGELQTTAQ*NKRGYKQMEE HSMMLMDRKKNQYRENGHTAQG NLQIQCHPHKATNDFLHRSGKNN YFKVHMEPKKSPHRQVNPKPK EQSWRHHA*I*LQTILQGYSNQN SMVLVPKQRYRSMEKNRALRN NAAYLQLS NL*QT*EKQAMGK GFLI**MVLGKLASHM*KAETG SLPYTLYKNQFKMD*RLKH*T* NHKNP RRKPRHYHS GHRHGQG LHV*NTKSNGNKSQN*QMGSN *TKELLHSKRNYHQSEQATYKL GENFCNLPJ*PRANNQNLQ*TQ TNLQEKNQPHQKVVGKGHEQT LLKRRHLCSQKTHEKMLSITGH QR NANQNHNEIPSHTS*NGNH* KVRK*QVLNGLDDVQLFR*NK QPCCSHKACLVVSSYRRA*SLV

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7846	38214	A	7901	1	1593	MGKKQNRKTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSELQEDIQTKGK EVENFEKNLEECMTRITNTKEKC LKELMELTKARELHEECRSLR SRCRDQLEERVSAMEDEMNEMK REGKFREKRJRKNEQSLQEIWD YVKRPNLHLMGVPESDGENGS KLENLQDIIQENFPNLARINKI DRPLARLIKKKREKNQIDTIKN DKGDITTNPTEIQTIREYYKHL YANKLENLEEMDTFLDTYTLPR LNQEEVESLNRPITGAEIVAIINS LPTKKSPGPDSIAEFYQRYKE E/PADKQLQQSLSIQNQCTKITSI LIHQQQTNREPNHE*TPIHNCFK ENKIPRNPTYKGCEGLLPGELO TTAQGNKRGYKQTEEHSMMLM GRKNQYRENGHTAQGNF*IQC HPHQATNAFLHRIGKNYFKVH MEPKKSPHRQVNPKPKEQSWR HHTT*LQTILQGYSNQNSMVLV PKQGYRSMEQNRALRNNAAYL QLSDL*QT*EKHAMGK/EFPI**
7847	38215	B	7902	1	2337	
7848	38216	B	7903	1	1677	

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7849	38217	A	7904	1	1722	MAGYPSEMKLPEELSGSNICCS AVFTVLQPLLLPRQTGSGVDL RQPTDLQLRVLTVRRKNNKQ KRTSTPKPHLYVTIHKDQRSKKL TQNHSSTTWKLNNNNNDYWV NNEMKAEIKMFFETSENKGTY QLNWDTFKAVCRGKFIALNAH KRKQERSKIDTLTSQLEKEQ EQTHSKASRRQEITKIRAEQKEI ETQKTLQKINESRSCFFEKINKI DRLLARRIKKKREKNQIDA DKGDITADPTEIQSTIREYYKHL YTNKLENLEEMDKFLDTYTLPR LNQEEDESLNRPITGSEIEAIINS LPAKKSPGPDRFTA E FYQRYKE ELHINRTKDKNHMTISVDAENA FDKIQQPFMLKTLNKLVLEVLA RAIRQEKEIKGIQLGKQEVKLSL FADDVIVYLENPIVSAQNL LISNSFSKVSGYKINVQKSQAFLYS NNRQTESQIMNELSFTIAS KRIKYLGQLTRDVKDLF KENYKPLL NEIKDDTNKWN KIPCSWVGRIN IVKMGILPKVVYRFNA IPIKLPMT TFFTELEK\\TTLKFI WNQKRARI AMTILS*KNKAGGITLP
7850	38218	A	7905	1	2310	
7851	38219	A	7906	195	791	GILSAKDMNRHFSKEDIYAAK KHMKKCSSLAI REM QIKTTMR YHLTPVRMAIIKKSGNNRCWR GCGEIGTLLHCWL DCKLVQPL WKS VWRFLRDLEI PFDPAIPL LGIYPNEYK SCCYKD CTRMFI AALFTIAKTWEPP KCSNMIDWI K/KMWH/IYTRDTMRPKN DEVQ SLVG/TWVN WETTFSVTIAVQK PTRLSH
7852	38220	A	7907	1	984	
7853	38221	A	7908	1	2076	
7854	38222	A	7909	1	1872	
7855	38223	B	7910	1	3309	
7856	38224	B	7911	133	3213	
7857	38225	A	7912	1	1364	
7858	38226	A	7913	1	3249	
7859	38227	A	7914	1	2757	

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7860	38228	A	7915	1	2268	MAGYPSETKPPEERSDSNICSSA IFTVLHPPLLIPRQTAFGMDLQQ MPTDLQLRVLTVKRKTNKQKG HPHQNPRTSPSSKTEDFQPTKI KRDKEGHYIMVKGSIQQEELTI LNIYAPNTGAPRFIKEVRLDLQ RDLDSDHTIIMGEFNTRLSTLDRS MRQKVNKDIQELNSALHQADL IDISRNLHPKSTEYTFFSAPHRT YSKIDHIVGSKALLSKCKRTEII TKCLSDHSIAKLELRINKNLTQNC STTWKLNNLLNDYWVHNEM KAEIKMFFETSENKDPTYQNL WDTFKAVCRGKFIALNAHKRK QERSKTDTLSQLKELEKQEQT HSKASRRQEITKIRAELOEIEQ RTLQKISESRSWFFEKINKIDRS LARLIKKREKNQIEAIKNNDKG DITTNPTETQTTIKEYYKHLYK NKLENLEEMDKFLNTYTLPRLN QEEVESLNRPITGSEIVAIINSLP TKKSPGPDGFTADEFYQRCKEEL VTFLKLKFQSIEKEGILPNSFYE ASINLIPKPGRDTTKKENFRPISL MNIDAKILNKILANRI/WGN*AE ERNKEYSIRKRGSQIVPVCR*H DCVSRKPHHLSPQSP*ADKQLQ QSLRIQNQCTKITSILIHQ*QTNR EPNHE*TPIHNCFKENKIPRNPT YKGCEGPLQGELQTTAQ*NKR GHKQMEEHSMMDRKNQHRE NRHTAQGNL*IQCCHSHQATNDF
7861	38229	A	7916	1	4729	

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7862	38230	A	7917	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDYRTLH PKSTEYTFFSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRINKNLTQRNSTTWKLN NLLDDYWVHNEMKAEIKMFF ETNENKDYYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQLKELEKQEOTHSKASRRQ EITKIRAELEKEIETQKTVQKINES RSWFFERINKIDRQLARLIKKKR EKNLIDAIAKNDKGDITTDPTEIQ TTIREYYKHYANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEIVAINSLTTKSPGPDG FTAIFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMVYLENPIVS AQKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDETNWKNIPCS VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELKKTTLNFIWNQK \RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNL IFDKPEKNQWGKDSLNFNKWC WKNWLAICRKLKLDPLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLKSFCTAKE TTNRVNRQPTKWEKIFATYSSD
7863	38231	A	7918	1	1205	
7864	38232	A	7919	1	2274	
7865	38233	A	7920	1	2307	

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7866	38234	A	7921	569	3030	RKH*TWKRTSSTSHHKNMPN* LEKQEQT/H/SKPSRRREITKIRA ELKEIETPKTAQKINESRSWFSE RINKIDRPLARLRKKKREKNQI DTIKNDEGDITTHPTEIHTIIREY YKHLYANKLENLEEMDKFLDT YTLP RPQNQEEVESLNGPIAGSEI QAIINSLPTKKS PGPDGFYQRYK EELVPFRLKL FQSIEKEGILPNSF YEASII LIPKPG RD TTKENFRPI SLLNINA KILNKILANRIQQH IK KLMHH DQVGFIPGMQGW FNIR KSINV IQHIN RTKD KNHMIHSID AEKA FDKI QQPFMLKTLNKLGI DGT YHK IIR ANYD KPTA NIILNG QK LEAFPLKT GTR QGCPLS PLL FNIV LEVL ARAIR QEK ETEGIQL GKEEV KLSL FADD MIVY LENPI VSAQ NLLK LISNFS KVSGY KIN VQKSQVFLY TDNRQTESQI ISEL P\FTIASKRI KYLG IQLTRYVKDL FKER/YNEIKEDTNKWK NIPCS WVGRINIVKMAILPKVIYRFNAI SIQLPMTFFTELEKTTLKFIWNQ KRAHI AKSILSKKNKAGGIMLP DFKL YYKATVTKTAWHWYQN RDIDQRNRTEPSEIMPHVYNH LI FGKP DKNKQWG NDLS F NKWC WENW LAICKKLKLD PFL PTY T KINS RWIKDLNVRPKTIKTLEEN LGNNIQD IGMGKDFTSKTPKA MATKDKD IDKWD LMKL KS FCTA
7867	38235	B	7922	1	3171	
7868	38236	A	7923	1	2646	

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7869	38237	A	7924	321	2211	CCQFSMARRGHLPNSVQVSIPG QSPVPRAAYQDSGRYKEPTAD C/VGPRQT*CMAPHCHLGGWH MLALSLGKGAGAGGKESTWEP SPGIRMTKTYSTRREQSHPRTI/ KGQIKQMNLRETCSWTFHKKF LKTVAFQISHPHKNTCLAMAVS ANRSMRQKFNKDTQELNSALH QVDLIDITYRTLHPKSTEYTFSA PHHTYSKIDHILGSKALLSKCK RTEIIITNYLSDHSAIKLELRKNL TQRNSTTWKLKNLLLNDYWV HNEMKAEIKMFFETNENKDTIY QLNWDAFKAVCRGKFIALNAH KRKQERSKIDTLTSQLEKEQ EQTHSKASRRQEITKIRAELEKI ETQKTRQKINNESSSSWFEGINKI DRPLARLIKREKNQIDTIKN YKGDIITDPTEIQTTIREYYKHL YANKLENLEEMDKFLDTYTLP RLNQEEVECLNRPITGAEIVAI NTLPTKKSPGPDGFTAIFYQRC SRWIKDNLVRPKTIKTLEENLG TIQDIGTGKDIMS KTPKAMATK DKIDKWDLIKLKSFCTAKETTIR VNRQPTKWEKIFATYSSDKGLI SRIYNELKQIYKKKSNNPIKKW AKDMNRHFSKEDIYAACKHM KKRSSLAIREMQIKTTMR
7870	38238	A	7925	1	3057	
7871	38239	A	7926	1	1830	
7872	38240	B	7927	1	3192	
7873	38241	A	7928	1	3484	MGTSEVQNNGEERAGTSGQGSV EQLSGSSVQLPPGLKLCFEPYFS SCASDCILHASPLSLMAASGSQ NPNLWASWLCCWKVQCPERQ LGCHLTSSVIYGLRYYPQAKRS ELELRDCEGLCNQTSPLOSSLDG MGWKAEEESNSGIRNIWIPIP AFATHKQYNVRQVISPSPPYWS HRGNGNNSLCVTRLSGGLKQP VAGTGRGLEGGSGTRDLMPFL SAAPKEQPPILAPARRSWFFEKI NKIDRLLARLIKRE

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7874	38242	A	7929	1	1946	NLTQNRSTTWKLNNLLNDYW VHNKMKAEIKMFFETNENKDT TYQNLWDTFKAVCRGKFIALN AHKRKQERSKIDTSQLKELE KQEQTSHSKASRRQEITKIRAE KEIETQKTFQKVNESSSWFFERI NKIDRPLARLIKKKREKNQIDAI KNDKGYITTDPTEIHTTIREYYK HLYANKLENLEEMDKFVGTYT LPRLNQEEVESLNRPITGSEIVAI INSLPTKKSPGPDGFTAIFYQRY KEELAGRDTTKKENFRPISLMN IDAKILNKILANRIQQHIKKLIH HDQVGFIPGMQGWFNICKSINV IQHINRTKDKNHHMISIDAEKAF DKIQQPMLKTLNKLLEVLR AISQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSGYKINVQKSQAFLYTN NRQTESQIMSELPTIASKRKY LGIQLTRDVKDLFKENYKLLSK EIKEDTNWKWNIPCSWVGRINI VKMAILPKVIYRFNAIPIKLPMT FFTELEKATLKFIWNQKRARIA KSILSQKNKAGGITLPDFELY KTTVTKTAWYSYQNRD\IDQW NRTEPEITPHIYNYLIFDKPEK NKQWGKDSDLFNKWCWENWLA ICRKLKLDPLTPYTKINSRWIK
7875	38243	A	7930	1	4801	MGDFNPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRAEIITNYLSDHS AIKLELRINKLTQSRSTTWKLN NLLNDYWVNNEEMKAEIKMFF ETK\ENK\DTTYQNLWDAFKAV CRGKFIALNAHKRKQERSKIDT LTSQLKELEKQEQTSHSKASRRQ EITKIRAELEIETQKTLQKINES RSWFPERINKIDRPLARLIKRR EKNQIDTIKN

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7876	38244	A	7931	1	3146	MGDFNTPLSTLDRSSRQKVNK DTQELNSTLHHADLIDLYRTLHP KSTEYTFFSAPHHTYSKIDHVV GSKALLSKCKRTEIITNCLSDHS AIKPELRKKLTQNRSTTWKLN NLLNDYWVHNKMKAЕIKMFF ETNENKDYYQNLWDTFKAVS RGKFIALNAHKRKQKRCKIDTL ASQLKEVEKQEQTSHSKASRRQ EITKIRAELEIETQKTLQKINES RSWFLERINKIDRPLARLIKRR EKNQIDVIKNDK
7877	38245	A	7932	1	2669	MHNTDGNRFLSHWGYRQALSI SKPASASLHPSSKTKPLGTQSKT VVAKRNREHGKKERSSSPAME QSWMENDFDELREEGFRRSNY SELREDIQTGKEVENFEKNLE ECITRITNTEKCLKELMEALK ARELREECRSLRSRCQLEERR KQERSKIDTSQLKELEKQEQT THSKAGRRQEITKIRAELEIET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIK\NDK GNITTDPTEIQTTIREHYKHLYA NKLENLEGMDKFLLDTYTLPR NQKEVESLNRPITGSEIVAIINS PTKKSPGPDGFTAEFYQRYKEE LHNRAKDKNHMIISIDAEKAF DKIQQPFLKTLNKLVLEVLEAR AIRQEKEIKGIGLGKEEVKLSLF ADDIMIVYLENPIVSAQNLKLL SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKR YLGIGLTRDVKHLFKENYKPLL KEIKEDETNWKWNIPCSWVERIN IVKMAILPKVIYRFNAIPIKLM TFFTELEKTLKFIWNQKRARIA KSILSQKNKAGGITLPDFKLYY KATVTKTAWYSYQRNDIDQW NRTEPSEILPRIYNYLIFDKPEKN KQWGKDSLWNKWCWENWLAI CRKLKLDPLKPYTKIKSGWIK DLNVRPKTIKTLEENLGITI GMGKDFMSKTPKAMATKAKID

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7878	38246	A	7933	1	2962	MNNNSIKEKVKLSLTKWEMQTK PNNTNTVDLKDAQEVLNLTSTDY RKQHVMLPTEINSDDSLKIGVI RLANWIKSQDPSVCCNQETHLT CRDTHRLKIKGWRKIYQANGK QKKAGVAILVSDKTDFKPTKIK RDKEGHYIMVKGSIQQEELTIL NTYAPNTGAPRFIKQVLSQLQR DLDSYTLIMGDFNPLSTLDRS TRQKVNKDTQELNSALHQVDL IDYRTLHPKSTEYTFFSAPHHT YSKIDHILGSKALLS
7879	38247	A	7934	1	4220	MGDFNTLLSALDRSTRQKVNK DIQELNSALHQADLIDIYRTLHP KSTEYTFFSAPHRTYSKIDHLV GSKALLRKCKRTEIITNCLSDHS AIKLELRKKLTQNHNSTTWQLN NLLNDYWVHNEMKAEIKMFF ETNENKDYYQNLWYVKDTRI SGMLWYVKAVERGKFIALNAH KRKQERSKIDTSQLKELEKQ EQTHSKTSRQEIITKIRAELEKEI ETQKTLQKINECRSWFFEKINKI DRPLARLIKKE
7880	38248	A	7935	1	3229	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELREECRSLRSR CDQLEERVSAMEDEMNEMKRE GKFREKRIKRNEQLQEIWDYV KRPNRLIGVPESDVENGTKLE NTLRDIQENFPNLARQANVQIQ EIQRTPQRYSSRRATPRHIIVRFT KVEMKEKMLRAAREKDRSTRQ KVNKDTQELNSA
7881	38249	A	7936	1	3227	MGDFNPLSTLDRSTRQKANK DTQELNSALHQVDLIDIYRTLH PKSTEYTFFSAPHHTYSTTDHIL GSKALLSKCRRTEIITNYLSDHS AIKLELRKNTQNRSSTTWKLN NLLNDYGVHNEMKAEIKMFF ETNENKDYYQNL\WDAFKAV CRGKFIALNAHKRKQERSKIDT LTSQLKELEKQEQTSHSKASRRQ EITKIRAELEKEIETQKSLQK\INE SRSWFFERINKIDRPLARLIK REKNQIDTIK
7882	38250	B	7937	1	2089	

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7883	38251	A	7938	1	3527	MELKT KARELREECRSLRSPCN QLEER VSAMEDEMNE MKREG KFRDKRIKRNEQSLQEIWDFVK RPNLRLIGVPESDGENGTKLEN TLQDIIQENFPNLARQANIQI QEI QRTPQRYSSRRATPRHIVRFTK VEMKEMLRAAREKAPHHTYS KIDHILGSKVLLSKCKRTEIITN YLSDHSAIKLELRINKLTQN HST TWKLNSLLLNDYWVHNEMKA EIKMFFETNENKD TTYQNLWD TFKAVCRGKFIALN
7884	38252	B	7939	1	5238	
7885	38253	A	7940	1	3587	MENDFDELREEGFRRSNYSEL WEDIQTKGKEVENFEKNLEECI TRITNT EKCLKELME LKT KARE LHEECRSLRSRC DQLEERVSAM EDEMNEMKGE GKFR EKRIKRN EQSLQE IWDYVKRPNLH LIGVP ESDGENGTKLEN TLQDIIQENFP NLARQANVQI QE IQRMPQRYSS RRATPRHIVRFTK VEMKEKILK AAREKDRSTRQKV NKT QELN SALHQADLIDLIDLIYRTLHPKS T\ EYTFFSAP HHT
7886	38254	A	7941	1	6202	MVKGSIQQEELTILNIYAPNTG APRFIKQVQLSDLQRDLD SHTLI MGDFNPLSTLDRSTRQKV NK DTQELNSALHQADLIDIYRTLH LKSTEYTF SAP HHTYSKIDHIL GSKALLSKCKRTEIITN YLSDHS AIKLELRINKLTQRNSTTWKLN NLLNDYWVHNKMKA EIKMFF ETNEN\KD TTYQNLWDAFKAV CRGKFIALYAHWRKQERSKM DTLTSQLE ELEKLEQTHSKASR RHEIAKIRAE LKEIE
7887	38255	A	7942	2	3134	WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPTFI QQVLSDLQRDLD SHTLI GDFN TPLSTS DRSTRQKV NKT QELN SALHQADLIDIYRTLHPKSTEY T FFSAP HHTYSKIDHILGSKALLS KCKRTEIITN YLSDHS AIKLEM IKNLTQN HSTIWKLN NLLNDY WVHKEMKA EIKMFFETNENKD TTYQNLWDTFKA VCRGKFIAK NAHKRKQERS

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7888	38256	A	7943	I	4455	MELTKARELREECRSLRSRRN QLEERVSAMEDEMNEMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDAENGTKLEN TLQDIIQEDFPNLARQANVQIQE IQRTPQRYSRRAATPRHIIVRFT KVEMKQKMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRQLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHP\KS
7889	38257	A	7944	I	6108	MTGSNSHITLTNINGLNSAIK RHRLASWIKSQDPSVV\CIQETH LTCRDTHRLEIKGWRN\YQANG KQKKAGVALVSDKTDFKPTKI KRDKEGHYIMAKGSIQEEELTI LNIYAP\NTGAPRFIKQVLSDLQ RDQLDSHTLIMGDFNTPLSTLDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYTFFSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAIKLERIKKLTQN RSTTWKLN
7890	38258	A	7945	2	788	CGLAIYNCTIVDLHFPLALYKK LLKKKPSLDDKELMPDVGRS MQQLLDYPEDDIEETFCLNFTIT VENFGATEVKEVLNGADTAV NKQNRQEFVDAYVDYIFNTSV ASLFRCFS\SGFHKVCCGKG\LR LFQPNELQAMVIGNTHF*WKG TGKDYRNTKGNIWAEH\PTIKIF WEVFH\ELPLEKKK\RFLFLTG S\DRIPILGMKSLK\LV\IQRSTGGG E\YLPVSHTCFNLL\DLPKY\T\K KETLRS*T*SQAIDHNEGFSLI
7891	38259	A	7946	I	1647	
7892	38260	B	7947	363	550	
7893	38261	B	7948	I	1123	
7894	38262	A	7949	I	3136	MVTHQQPAARKPNMTSKPKP MGPKAHGIFSGTRKNMNEIYMD QTRTGIAKTKLSKNNKSGGMT LPDFKLYYKAIVAKIACGGSMY NSDTDEDEETEPSSSGQQIINSI TMNKMKLLKAKMKNMNLSSKK HITQVSDEEEEDDGCDLFADSE KEEKDIEDIEENTRPKRSRPTSF ADELAARIKGDAVGRVDEEPTT VSYEDDRRGKNQDAYTEGGLS TIKTVNCSSSLTLLRSKTSEDTQ EKKERRTPSDEED

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7895	38263	B	7950	303	1010	
7896	38264	A	7951	3	280	
7897	38265	A	7952	3	514	FYLKELDPAEHSYVLIRKIDPAL VWGLTGDQGTPKTRLLMITLD SIFMQASCVPPEEVVWEVLRVLE AH\SSKKHVFVFGESMKLITKAS VQQEYLVHK*VSHSNPTLYVFL WGLSKETRQMEVPEFVAKVND THPSSFSVGSK*GI*EKEGGYP VPEMGSCRIVTVTSASV
7898	38266	A	7953	2	351	
7899	38267	A	7954	2	529	EKGERPHWSNKPSNLKRTHEL DIDENPASDFDDSGSLLGFKYG SGQKYGGIPYFSHRQVR**EKN VKLKAKYLNMRGQIKMKNKHI FFTKETEKPFKKSKILSKVEKF LTWVNPKPMDEEAQESSSHDN GHDASTSCDSEEQDMSVKKGD DLLETNNPEPEKCQSVSAGEL
7900	38268	A	7955	1	1370	MPVGTSNFLLGLENPNLPLT RPSPFPSQREASWGIQKATTGP GEGETRLGFSLLDVFCALHG PREKCVEILRGHLLAISPGGVR EALISDETYNIVWGHRRGFAQV AIDAKVVEKFLT WVNPKPMDEE ASQESSSHDNVHDASTSSDSEE QDMSVKKGDDLLETNNEPEK CQSVSSAGELETENEYERDSLAA TVPDEQDCVTQEVPDSRQAETE AEVKKKKNKKKKVNGLPPE IAAVPELAKYWAQRYRLFSRFD DGIKLDREGWFSVTPEKIAEHIA GRVSQSFKCDVVVDAFCGVGG NTIQFALTGMRVIAIDIDPVKIA LARNNAEVYGIADKIEFICGDFL LLASF*KADVFLSPPWGGPDY ATAETFDI RTMMSPDGFEIFRLS KKITK\NIVYFLPRNADIDQVAS LAGPGGGQVEIEQNFLNNKLKTI TAYFGDLIRRASET
7901	38269	A	7956	3	560	RIHTGEKPYDCKDCGKAFGRTS ELILHQLRLHTGVKPYECKECKGK TFRQHSQSQLILHQRTHTGEKPYV CKDCGKAFIRGL\QLTVHRRRIHT GARPYGVLKECGESLLDSTS* LLHQ\RIHTG\EEPYECKECKGKG FIHSSEVTRHQRHQS\GEKPYECK ECGKAFRQHAQLTRHQRVHTG DRPYESAED

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7902	38270	A	7957	155	1288	HTTASQTTMSQAVR/RRSDYL SSARR/RRDPARSKPTQGGPPPN PPPTRQGRPTALTNPSPQRPRHR AHPHQHATPKPRTNEEQEGRR HTKQPNTPTRTEPRPPNRRGRPN PQTRRTKQQNTPQAHTSTRKN ARTPGLCP*CVKGKTEGGYDA RASARGPYMAGVSWPGEHEDP GAPEARRGRRALPG\GSAFPEM STHTESTPKTTAHTSNDRRNRE QRVKKKTYKTTRSRGANRNST ERHEDGYFYGSLLTGPLPWHSA IHSVSAGQPWSLKFVTGLQQAS EGYFSQSQERSLPNRKSSVPRRLR LLFLQQASRLSELPLGTEGPGSL LLRPREEELACTGKRRKTGGAIM GEVSVCESLPAFAQSPVQLC GCQPEKA
7903	38271	A	7958	1	2045	REAAAATPSFPSSSVRPSVRAS VRSARSGPKHGRRQLQRPPPGA /RWRLTRR*SERRARPTGLCTH MKMAPMTSSLQHQEKGACRSF RDTLRTRR*CTASAVSRTPK\RS AKIRAHQLGRRCA*CPQVRLC QPRG*GGRVLPGCRRDRERQQ RGRHRRGCHRAAAL*RAGATL QPCAAPTAARG*ER/SSPWAPP TRRRMQLWK*SGLTESSSGSRP RRKKSCGRRSGRRPWRMRGSG SSRSGWSRSRSRSKRSASGATGS GSSRSRSTGGNSRL*KRKPRG G*RSSLSLVTIGMRRKRPT*RSQ SRRWRRQQLLPSGLTTQGSSS SSRKESHPLRAAVMYPRPSTI DQAATWTATGGWRPLPSPRGA RLTPAPPPLSLSR*SGPWMRSP P/PQPPPLPPPPP\PKRPRSPAPS* TVRRPEQQPLRPGPAPWRSPLR HRLPLGGQAALQRT*CSWSLQS RLSWLLPWSLPQLTPRSTMQL TPLKLTPLLPTTYPPPPPA SLTYGLATKGPPHSRVSPGPP RHPRVLRSPWQRCPCWMRWL RSHCCQQAKAVPPFSTLMSCLS RQPPSVTQRKWKGSPWLPPRPQ LCPQPLRSWSKSRSRSPTC*PM ARPPRRRGPRPSEGYSQSQEEE FAQSEELCAKAPPVFYNKASE NVIHMLGCRPSSRRGGGLRGW
7904	38272	A	7959	3	174	

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7905	38273	A	7960	3	862	GVMASRTL LLLL GALALTET WAGTHSIRYFSTA VSRPGRGEP RYIAVGYVDDTQF\DAATPRM* PQSPWLEQEGPEY WDRSTRNIR PAHRLTRVNLPMP RRYYHQ S* AGTGIFHGIRR/YIPDTCVQTHM IHHSVSDYKATLRCWALGFYP VEITLAWQ\QDEEDQTRDHE\L VETRPAGDGT FQKWA AVVVP S GQEQR YTCHVQHEGLPKPLTL RWEPS SQPTIPIVGIIAGLVLFGA VITGAVVA AVM/WQEEELRTFS SHR* SELT SERASS DHAQGS DV SLTACKV
7906	38274	A	7961	1	591	MVTDYAI EFLQASL ILLSSTLP YNEREMGLS IFALL TLTVF LLL ADKVPETSL SVP IIKYLMFTMV LVTFSVILSVVVL TLHHRSPHTH QMPLL VPSDLHSQTS A VPASKK AQTRERPDAGAPS LFFSRKWL G YIARQLQEQEDHD/V AEGGLAV CGHSGGPPLPVDFHH LHQRWD PSHL PGRHVPLAPS RPLSL
7907	38275	A	7962	1519	1888	ILKHPTLDKE LILTYLF IYLFI FL RRNFTLVA*ARVQWC DLAPPQ PLSPGFKPF SCLRFPSSWDY RYA PPY LANFVFLVGTGF\ SMLVRL VSNSRPQ/CDPPASAS QSAGITG VN HHA\RITFNF
7908	38276	B	7963	280	1977	
7909	38277	A	7964	994	1651	CRGSQPAPPLTPHPPNAPLG PSD LHSQ TS A VPASKKAQTR\GD LM PEPPHCSSPGSGWGR GTDEY FIR KPPSDFLFPKPNRFQPELSAPDL RRFID/VSKPGCGPASGATGG\W SSIS YIARQLQEQEDHD/V AEGG LA VCGHGS GPPLPVDFHH LHQ RWDP RSSSW\SHVPLAPS RPLSL KTGG LRP GPLP VEVREFGDTVK PYPSLPLNSFTRNL GLLFRSG

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7910	38278	A	7965	10	533	DEVSLCCQAGVQLHDVGLQT ASQVQAIIPLQPPEVAEISGACH HACLIFVFLVEMGFHHIQAGL KLPTSGDLPASASQSAGITGVS HRARPASSYLF*DEVSLCCQ AGVQLHDVGLQ\LPPRFKRFS C\PASRSS*DFRRRLPPRPNFCIF/ M*RWGFTILARLVNSRPQ/CD LPASASQSAGITGVSHRARPASS Y/CIFFLRWRLTIAQAGV**CNL SSLQQPTPGFKWVSCSLPSSW DYRSLPLPANFCIFS RDGVSLC SLSWSRTPDFK
7911	38279	C	7966	312	467	
7912	38280	A	7967	31	678	TGLYFLFLFCLRRSLA/SVAQPG VQWRDLGSLQPAPPGLRRFSFL SLQSSWEYRCPLPRPADFLYF*S RRGFSTLVRLVNSRPQ/CDPPA SASQSAGITGVSHCARLFFSFE MEFRS\VAQAGVQWRDLDLSQL PLPPGLT*FSCLSLPRLGAA/WD YRRVPPCPAIFC/IFFFFSRDRVS PCWWSGSQTPDPQVIRPPRPSQ SAGITGVSHRARPSHIS
7913	38281	A	7968	23	99	YTMTGPGCWRL*TGPHPPHT WPGGSSSHPQIPHRPPCVFG
7914	38282	A	7969	144	1239	ERTEPDH/TTLT*P/ELPADTTA TVEDMLPSVTSVTTNSDTITETF ATAQYILTSETTTLSSIAPPAT ATPDSNSVPAGQATPSKGPSAS APSPAPASAPKVALVDLSDTP TSTPAASNLLSSVLANQGAVLS PSAPAGVGEASKAPPASKPTPA PVPTPTGAASPLAAAAAPATEA PQAKQEAPSTKGPDPPEPTQPGA AKSPAEEATALASPKSEAASVS TTNPSQGEDFKMDEGNFKTPDI DLAKDVFAALGSPAPAAGASG QAPELAPSTADSSVSPAPAKTE YGLSLSAVIGLCPVVSGWEDSG LPSIKWLGLKVQEKGPNLSGK NTASGINLGEEERTRSSDSVLL NYGCTLESLGCF
7915	38283	A	7970	3	375	ARQAMKSCLHQCFLTPRQAL EASSCNSTGWGEGTGKSGLQ RGP*NQCWEPSAQQAFTSS* AVATAAGQGEEELPLLPPSTTP GKNTASGINLWLEEERTRSSDS VLLNYGCTLKSLACF

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7916	38284	A	7971	1	2230	MFEASVGWFMRLLEERTRLHDI QAQDEAVTADLEAAAGYPDLA KIIDEGGYTKQQIFSVDTAFS WKKMTLRTFIAKEGTNTDGAS SATSSLVSLCLELCFLRAHHDV GFYCDLDVYQSAVYAPTCPTG YSLPQAKEESDFIPLEYEKGRIT STAGQQGDVEPEMEQLEKGSIK GVTETRTGPLGCSNYDNLDSVS SVLVQSPENKVQLLGLQVILPE YLRRERFVA AALSYITCSSEGEL VCKENDCWCKCSPTFPECNCPD ADIQAMEDSLLQIQDSWATHN RQFEESEEFQALLKRLPDDRFL NSTAISQFWAMDTSLQHRYQQ LGSWL*KVLF\KKTHRILRRLFN LCKRCHRQPRFRLPKERSLSY\W WNRIQSLLYCGESTFPGTFLEQS HSCTCPYDQSSCQGPIPCALGE GPACAHCAPDNSTRCGSCNPG YVLAQGLCRPEVAESLENFLGL ETDLQDLELKYL\LLQKQDSRIEV HSIFISNDMRLGSWFDPWRKR MLLTLKSNKYKPGLVHVMLAL SLQICLTKNSTL\EPVMAIYVNP FGG\SHSES\WFMPV\NEGQFSL TW\ERTNVDAAA\Q\CQNWTM HLGGIRWKTF\ETV\HVYLRSR IKSLDDSSNET\IYYEPLEDDWIP LRNLG\YMKINTL\QVFGYSLPF DPD\AIRDLILQLDYPYTQGSQD SALLQLIELRDRVNQLSPPGKV
7917	38285	B	7972	62	232	
7918	38286	A	7973	3	258	KLSPPPPPLPPSPLLPRPGPA\GPP SRLPSP\PASASPQGVP*LGPA AELPGIRSR*PQVAAPEAETHP WCCC*RSSPQQQRISH

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7919	38287	A	7974	1	1048	MAHSQNSLELPININATQITTAY GHRALPKLKEELQSEDLQTRQK ALMALCDLMHDPECIYKAMNI GC MENLKALLKDSNSMVRIKT TEVLHITASHS VGRYAFLEHDI VLALSFLNDPSPVCRGNLYKA YMQLVQVPRGAQEII SKGLISSL VWKLQVEVEEEEFQEFILD TLV LCLQEDATEALGSNVV LVLKQ KLL SANQNIRSKAAR ALLNVSI SREGKKQVCHFDVIPILVHLLK DPV EHVK SNAAG ALMFATVIT EGKYAA LEAQ AIGL LLELLHSP MTIARLNATK\ALTMLAE APEG RKALQTHVPTFRAMEVETYEK PQVAEALQRAARIAISVIEFKP
7920	38288	A	7975	1	782	MAVTAAACWSLRPLARRDVCV GVALASPFVKPTHWFCKTLLEP CRPTGMGAQEII SKGLISSLVW KLQVEVEEEEFQEFILD TLV LCL QEDATEALGSNVV LVLKQKLL SANQNIRSKAAR ALLNVSI SRE GKKQVC\HF DVIPNPWSHLLKD PVEHV KV*RCRLPLMFA\TVIT EGKYAA LEAQ AIGL LLELLHSP MTIARLNATKALTMLAE APEG RKALQTHVPTFRAMEVETYEK PQVAEALQRAARIAISVIEFKP
7921	38289	A	7976	1	300	VEQTGRGE/RAYDIYSRLLRNA FLCVMGPIDDSVASL VIAQLLFL QSESNKKPIHMYI NSPGGVTA GLAIYDTMQYILNPICL PRTVR MSPRWCRRSL
7922	38290	A	7977	2	470	RPPQRTLQNGLALQRCLHATAT RALPLIPIVVEQTGRGEASYDIY SRLLRERIVCMGPIDDSVASL VIAQLLFLQSESNKKPIHMYI/N QPSGGARGQATDIAIQAE EIMK LKKQLYNIYAKHTKSQLQVIES AMERDRY MSPMEA QEFGILDK

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7923	38291	A	7978	3	864	SCRYPALGPRLAAHFPAQRPPQ RRPPRTACSLQRCLHATATRAL PLIPIVVEQTGRGERAYDIYSRL LRERI\VCVMGPIDD\SVA\SLVI AQLLF\LQSR\SNMKPIHMYIN\S PGWVVWVTAGLGHLTDIAVTF LQPDFCTW\CSLGPAGASMGSL AFFAAGTPGMRHFAPQLPVFMI QPALQEGAGGGQSPPDIAIQAE NP*KL\KKQL\YNI*RQRTTQTRS LQGDRVPPMAEGTA*HEAPME GPQEFGVILKTRFLVPPSPQDGE\DEAPRLVQKEP\VEAAPAAEPV
7924	38292	B	7979	1	2088	
7925	38293	A	7980	412	812	FQSLFTCVLFHFKFSLTIHHMNS QPF*RIRSTFFFLKQSL/DSVTQA GVQWRDLGSLQPPPPGFKQFSC LSLPSSWDYRRAPPHPANFFYF F**QTG\FTHVGRMVPI*PRDPP ALASQSPGITGMSHCTRPRIR
7926	38294	A	7981	2	178	
7927	38295	C	7982	279	322	
7928	38296	A	7983	2	760	GVRRSGGGR\GRPGGGPRKARR GKAEDKE*MPVTKLGHLVKDM KIKYLEDV/YFSLPPIKESETIDFF LGSSLKEEGLKIMPVQKQTRAG QRTRFKAFVATGDYNGHVGLC VKCSKEVATAIRGSVILTKHSIV PVRRGY/WGNKMDK/PHTVPCK VTGRCGSVLVHLIVSAPVPKLL LMMAGIDDCTSARGCTAT/LG NFAKATFDTISKTYSYLTLDLW KETIFTKSPYQEFTDHLVKHT RVSVQRTRAPAVATT
7929	38297	B	7984	318	406	
7930	38298	C	7985	333	439	
7931	38299	A	7986	2	171	
7932	38300	A	7987	1	668	MGGLFWRSALRGLRCGPRAPG PSLLVRHGSGTIMGVFVAVGTI PVPSRVPICIEADTLKPGGPSWT RERTLVAVKPDGVQRRLVGDV IQRFERRGFTL\VGGMKMLQAPE SVLAEHYQ\DLRRKPFFPCPSSR YMSSGPVVAMVWEGYNVVRASRAMIGHTDS\AEAAPG\TIKGV DFSVHISRNVIHASDSV\EGAQR RIQLWFQEQQ*SWVSWA\D\GGQHSSIHPA
7933	38301	A	7988	1	897	

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7934	38302	A	7989	1	142	MEYYAATKNDEVMSFV/GT/W MKLETIILSKLTQEQQTKHHMF SLISGS
7935	38303	A	7990	287	1086	EPWREMFISVYTLQKLGALFTI AKTNQPKCPSMIDWIKKMW H/IYTMEYYAAIKKDEFMSFER TWMKLETIILSNTLQEQQTKHR MFSLISGSRTMRIHGREGNITC QGLLGECVHTVATRGSPSATE DESCRMNVNDYGGNSPSTLQV KTSPQGRAEKGNVRTWLYSN LVCWPSLGSLSMGKLDRVIKR VIYTHTAGDVSMEHEGFQFPLK QVSLLLCAIAFQPSLVAAALV HITMEAYTYLEVTLQIHSPFLC FLPKCHF
7936	38304	A	7991	1550	1835	DTISHQLEWQSLKSQETTALLTI AKTNQPKCPSMIGWIKK\MW HIHTMEYYAAIKRNEFMSFAGT WMKLETIILSKLTQEQQTK\HH MFSLIRGS
7937	38305	A	7992	164	647	DLPVEPHIGKMLFEALVL/HCL DPVLTIAASLSFKDP\FVPLGKE KIADARRKELAKDTRSDHDTV VNAFEGWEEARRRGFRYEKDY CWEYFLSSNTLQIM/MKIIKAVI CAGLYPKVAKIRNLGKKKK\K VKVYTKTDGLVAVHPKSVNVE QTDFHYNWL1
7938	38306	A	7993	66	345	

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7939	38307	A	7994	1	2367	HRVTVISGETGCGKTTQVTQFILDNYIERGKGSACRIVCTQPRRI SAHSSCGKSSCRKGQNLVASGN STGY\QIRLPESVAQGNRVLSYT VPTRNHPPSSGSQSDPYLSSVSHI VLDEIHERNLQSDVLMVVKD LLNFRSDLKVILMSATLNAEKF SEYFGNCPMIHIPGFTFPVVEYL LEDVIEKIRYVPEQKEHRCQFK RGFMQGHVNSQEKEEAIYK ERWPDYVRELRYYASTVDVI EMMEDDKVDLNLIVALIRYIVL EEEDGAILVFLPGWDNISTLHD LLMSQVMFKSDKFLIIPHLHSLM PTVNQTQVFKRTPPGVRKIVIA TNIAETSITIDDVVYVIDGGKIK ETHFDTQNNISTMSAEWVSKA NAKQRKGAG\RVQPGSLLFICINGS*EASLLGWTIQLPEIFEE\PF WEGTLFTK*RFLRLGEIAYFLSR *MDPPSNEPVLLSIRHL\RSLNA LDKQEELTPLGS\HLARLPVEPH IGKMLF\GALFCCLDPVLTIAAS LKFQ\SPFVIPLGKEKIADARRK ELAKDTRSDHLLTVVNAFEGWE EARRRGFRYEKD\FCWEYFLSS NTLQMLHNMKGQFAEHLGA GFVSSRNPKDPESNINSNEKII KAVICAGLYPKVAKIRLNLGKK RKMVKVYTKTDGLVAHPKSVNVEQTDFHYNWLIYHLKMR\ TSSIYLY\DCTEVSP\YCLLFFG\G
7940	38308	A	7995	25	312	WLIYVITDARMYRQRGRYYFL VSSSLDKVLMISFLLGWRRSSR RLRAFLVLHLRASPWAPRSFVR PVSAFSVGMCHMKTRVFENTF PFTLGHHTVRYVGREIF/CRRVFT RYRESIKISLPTYLTVCPRKGN VFSNTRVFMWHIPTLKADTGRK KLLGAQGEARRCKTKKARKRR EERLQPNKKEIIKTLSKEEETKK
7941	38309	A	7996	2	417	QQIRKLKVGLIHKPVIVHSQV GCQKSTFS/RTKGGRHMG TG*R KSTANFQMPEKVTWMRRMRIL HWLFGRYHESKKTDHHMYHSL YLKVQGNMFTNKQILMEHNHK LKADKAHKKFLADQEARSSK TNKASKLREER
7942	38310	A	7997	3	124	KKRPELRDLLNQARKETL/ARK EDRSASSGAEGDVSSEREP

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7943	38311	A	7998	911	1497	SQRKARDQRRKRKNKRASSIAK HKEPKRPLPSGKNSQEGVATH TKPLAQGKVWLDP/NETNEIPN ANFRQQIRKLIKDGGLILRHRKPV TVHSRAQGWKSTLARRKGRHL GIESKKIDRHMYHSLYLYKLKG VFKHKRILTEHSHKLKADKAR KKPLADQAEARGSKTKEARKL REEHLQTKKEEIKTLSQEEKAK
7944	38312	A	7999	34	279	EVIHAAIGEKGSY/NA**PWVE EQLTRQPLIHHQPASLHSVY/RC RYHSLYLYLKVKGNVFKNKRILM EHIHKLKADKARKKLLA
7945	38313	C	8000	351	530	
7946	38314	A	8001	356	921	WRATACTYPSWAPPRILVATGP AAVSAGLPSLHGTRAGPQAPCT AAVPPAPLPPHRPAS*G/MPAGP VQKGAPT/AAAAG*RLLKGQS RRQGRGGAERTEGCQHAVTFQ DCFLRCFFG*C*CLSG/ERAIALE QGASHAAEQLPRLQAFKRPGPL /QVNPDAPQKSAASSSLKVLSG LPKHQRPRRFCQNTGS*SGP**T TGRRSAAGAA/GKPENPGSPPA PHNFKSGTNPAVTTHHPVGSKP RPEPHGNSEA
7947	38315	A	8002	495	653	MTLTSIDPVLTFFFNLECPL/VFT ATASSGLGEVE*AIALN
7948	38316	A	8003	1	1433	MPESNCSTWRSVGRAVAAQ GGEHSSSQGASLVLGEPRGGSS WLLGLEDTGLWGGLLKEGRL TDGKGKTIDCKDAIFIMTSNVA SDEIAQHALQLRQEALEMSRNR IAEN\LGDVQISDKITISKNFKEN VIRPILKVRGLSWHFLLEPKAHF RRDEFLGR\IGEIVYFLPFCHSEL IQLVNKELNFWA\KRAKQRHNW TLLWD\REVADVLVDG\YNVH YGARS\KHEVER\RVVN\QLAA AL*SRTLLP\GGCTLITVEDSD KQLLKSPELPSPQAEKRLPKLR LEIIDKDSKTRRLDIRAPLHPEK GRLTDGKGKTIDCKDAIFIMTS NVASDEIAQHALQLRQEALEM SRNRIAENLGDVQISDKITISKN FKENVIRPILKVRGLSWHFLLEP KVLTTFFFNLSQLYLGNSIQRL GEVNKLAVLPRLRSLTLHGNP MEEEKGYRRARGHSLHQGIEK YICESDDIFRKYCENNQFL
7949	38317	A	8004	1	789	

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7950	38318	A	8005	1	409	LRELSFCSSCLLEPPWS/TTVV CLYCRPATDFHPSGSGRVSAVL LIQ*G/RPLPLLIRLKACHCSHTA KCPGSSPSSMSPTAEEQKSGTA EERREGASEHGEFGWGRLERS AVEWPNSRGRSSSHSIPFPAPRP
7951	38319	A	8006	1	1787	MSKGESRKCNEENVSKSSKVV KVFIVLTPQFLSRDKDQLTKEL QKHVKSVTVSCKSPRKLLSHIT RLHPPSKGQGENLTHLVDSIKA TIWCQPWVETVEGQRRRGNC IDFTNGCDLVSSSLHNMLVCS SYDINRQDTFQKDRTSEKHLLD SVFTALQDSAGQQWPARLHPQ RGEEVADPRGAPSRRHVEPENSS PCQGNGEQAGKAGARALCGQ ARRSPATMPPPLTTRSLCEFAVF LLHWLFPELFHYRKLGEQDSCY GDGGKQELDPQRLQIICNFTEV YFPHMQEEEAWRQAGPGPAEA AD/TSATSRRSTSPTCRRRRPGC SGAPSASTTSFRAWGWTQAAK ASPPRDNCYNSSLPPDDISLFTH DNLHKQHSCSDSLGKKQLDPS CIKLIRH*VHLLYLCTKNNRVW TLEFMGNLHWNRNRGAPTSSS ARSTCWPRV*RHEELCNQS*EV QRGV*GSPAAPERSSKDFCKIPL DEVVVPH*/DFPVRSVPYLLSDKE VCKIVQQSLVGNFAAGLL/LPP RTSSCSTTIFGL/DNKKQLDPTQ LRLICH*VEAVYPVEKVEEVWH CECIPSNDEQCHCPNRKKCNIL

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7952	38320	A	8007	1	1475	MAVDFSLAVLMIVSSYDINRQDTFQKDRTSEKHLLDSVFTALQDSAGQQWPRLHPQRGEEVADPRGAPSRHVEPENSSPCQGNGEQAGKAGARALCGQARRSPATMPPPLTRSLCEFAVFLLHWLFPELFHYRKLGEQDSCYGDGGKQELDPQRLQIICNFTEVYFPHMQEEEAWRQAGPGPAEAAD/TSATSRRSTSPTCRRRRPGLQRCAQCINDKLQGLGLDAGSEGEPPTRQLLQLLQPAR*HLSNQGGG*LQGRALFTHDNLHKQHSCSDSLGKKQLDPSCIKLIRH*VHLLYLCTKNNRVWTLEFMGNLHWNRNRGAPTSSARSTCWPRV*RHEELCNQS*EVQRGV*GSPAAPERSSKDFCKIPLDEVVVPH*/DFPVRSPTYLLSDKEVCKIVQQSLSVGNFAAGLL/LPPRTSSCSTTIFGL/DNKKQLDPTQLRLICH*VEAVYPVEKVEEVWHCECIPSNDEQCHCPNRKCKNILKKAKKVEK
7953	38321	A	8008	1	3524	MCNNLIHSLANNKITTINGLNKLPIKILCLSNQNIEMITGLEDLKALQNLDSLHNQISSLQGLENDLLEVINLEDNKIAELREIEYIKNLPILRVNLLENPIQEKSSEYWF FVIFMLLRLTELDQKKKIKVEEKVSAVNKYDPPPEVVAQDHHTHVNVSMQPQRIFDRYLLIEQRPEFRLVLKLVGNESLPIASADSLALTSDMVNRNGDLFYDFRACHTTRPPYFGEGRDVRDYHFISQDVFDEMVMNGKF
7954	38322	A	8009	258	719	MTPPSVLP*PSLSY*HPPYSLPFPSPPVLCFPHPVQGLYSVLFVN TAAEPREKSAMAILPLSGHACS HVCLGSHQSLFQRACGRCPRLSGSLRSHCHWLLILGVKKCSPP EAGKAILLTDRTEMNISWKRNPNSHTVPHHICCHWRI
7955	38323	B	8010	1	1953	
7956	38324	A	8011	32	533	GRERPLLSPYMETLYRVPFLVELCPNLKLKPPWLHMPSAMTVYALVVVSYFLITGGIYDVIVEP PSVGSMTDEHGHQRPVAFGLGQSKMDNNINGKGLCIQAS*FTMGGFRFS*ILDPIECTKYPKTS\NDSFFCSIGISSVVLLEFFPWARSNSMRNGNCPLI

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7957	38325	A	8012	670	1052	TRRDSRCKGTWLLSVKTLAISA VKSQKSKASECRFTNRSSSTAVI RVLLPGILLSSKLRCMSVLATA LERDDSDVGVTISSINPQDSHFS CLLLLRISSNSC*IC/CNFFAIRV HLAEVCI*QTSL
7958	38326	C	8013	40	186	
7959	38327	A	8014	1	1216	
7960	38328	B	8015	1	1032	
7961	38329	B	8016	1	1761	
7962	38330	A	8017	108	708	LTNQKKSRTTRIHSRILPEVQGG AAADRHCPIDRLGSLQDHRRS RLLSQWSP*KSTHD*HGFS\YQS AEDIRRKLQQQAEFAGMNTSEL LQIANQAFVNNDAVSRKENHR DNERQAQRNTDLLAAIRGVPP KRQGKGGPGKETQPGCQSLQR NQCAYCKEIGHWKNKCPQLKR KPGDSEQEAPDKDEGALLNA EGLLD
7963	38331	A	8018	1	512	LSRSSPLLPLVWHQAMVGSM VEPAAWVLMTCWDTPRQSGV PRERMPHTGTWRTVGIRCPKK KLRSANSSMMRGKVQPFRP/DI QAYGAAPFEDLQVDFREMPKC GGNKYVLVLRGRTYSWVEAYP TRTEKTREVTVPVLLRDLIRRFP PLWIGSDNGPAFLAALVQKTA
7964	38332	A	8019	3	764	KQVLVNGDAVSREEKRKENER QARRNADLLVSCSNQSGPPKEA REELWTKDYRPGQDLRLLSQA TLTFHPTVPSPSTLLGLPAEDS WFTCLDLKDAFFPIRSAPESQK LFAFQWEDPESALAKTVRQRC VSCRQHHA\GKVQPFRP/DIQAY GAAAFEDLQVDFTEMPECGGN KYLPGRTYSGWVETYPTRA EKAREVTRVLLRDLIPRELIPF IGSDNGPAFVADLLQKTATVLG ITRKLHAASRPQSSGK

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7965	38333	A	8020	19	1548	CIYGAQLCTGPSAPVWYCPLGT MAPTGLPGHPAVATA ^T EPHRE RGSP ^L IDSTVLVPPQDKHILRPP TVDKRGGEASGETPPLAARLRH KTGIQMPLREQQYTGIDEYGHV VERRVF ^G YQPFTSAHLLNWKS NTPSYTEKPQALIDLLQTIIQTH NPTRADCHQLLMFLFNTDERR RVLQAATKWLEE ^H APTDYKNP QEDVRTQLLG ^T YPQWD ^P NERQ DMQR ^L LNRYREALLEG ^L KRGAQ KATNINKVSEVIQRKEESPAQF YERLCEAYRMYTPFD ^P NSPENQ CMINMALVIQSTEDIRRKLQKQ AGFARMNTSQLLEIANQVFVN RDAVS ^R KENQKENG ^G WPPCLR ALAATALLVQEANKLTGQNL NIKASRAVV ^T LMNTKGHHWLT DARLT ^K YQTL ^L CENPRITTEVC NTLHPATLLPVESPVEPDCVE VLDSDVDSRPDLRDQA ^W SVD WE ^L YVGSSFFNPQGERGAGY AVVTLDTVVEARSLPQATSAQ KAE ^L VAFIRALE ^L E
7966	38334	A	8021	1	895	MDGAGICYLHQTNAGTEIQT ^{PH} VLTYKRELNNENMW ^A HRGDN THWGPEGSTNSPASASGVADV SRV ^G SLQWVLGLADFKNEAKE LRLYKQE ^K REKA ^R WKETEKG FNGDYGVTMTPGKWR ^T YFEID WSKLEVGV ^P SEGNLERSLVSK VWHKVTGKSGHS ^D QFPYIATW LQLVLDPPQWLRGQAA ^A VLVA KGQI\PRKDPTPPGRGKSTPEVL FDPTSEDPLQEME/PSDPSGALP LPGKDAPHS*AHSPCASTRQTY P*ATRSRQERR*SLERNPYIGSS FKTQNWDTNAPERAVVYWDR

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7967	38335	A	8022	1	1959	MLKNFKKGNGDYGVMTPG KLRTLCEIDWPTLEVGPSEGS LDRSLVSKVWHKVTGKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPTSDDPLQEMAKVIPVVP SPYQGERLPTFESTVLVPPQDK HIPRPPRVDKRGGEASGETPPL AARLRPKTGIQMPLREQRTGI DEDGHMAERRVFVCQPFTSAD LLNWKNNTPSCTEKPQALIDLL QTIIQTHNPTWADCHQLLMFLF NTDERRVLQAATKWLGEBAP ADYQNPQEYGKEESPAQFYER LCEAYHMYTPFDPSDENQRMI NMALVSQSAEDIRRKLQKQAG FAGMNTSQLLEIANQVFVNRD AVSHTGAEHSVVTGPVAPLSK KTIDIIGAMGVSAKQAFCLPRT CTPGTKDYRLVQDLRLVNQAT VTLHPTVPNPYILLGLLPAEDS WFTCLDLKDAFFSIRLAPERQK LFAFQWEDPESGVTTQYTWTW LPQGFKNNSPTIFGEALARDLQK FPTRDLGCVLLQYVDDLLLGHF TAVGCAKRTDALLRHLEDGY KVSKKK\AQICQQQVRYLGFTI RQAERTLGSGRKQVICNLPEPK TRRQVREFLGAAGFCRLWIPNF AVLAKPLYEVTK*GDREPFEW
7968	38336	A	8023	2	367	
7969	38337	A	8024	3	687	GGRRQRSSKVTSTWWQARESS CRGTLLYKTIRSCDTYSLSSEQ HGPNLH\IGVPESDGQNGTKL ENTLQDIQENFPNLARQANIQI QEIQRMPQRYSRRAATPRHIIVR FTKVEMKEKMLRAAREKGRVT HKGKPIRLPADLLVETLQARRE WGPIFNILKEKNFQPRISYPAKL SFISEGEIKYFTDKQMLRDFVTT RPALQELLKEALNMERNNNWYQ PLQNHAKL
7970	38338	A	8025	1	993	

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7971	38339	A	8026	1	842	MAEQEQLQSAVPSPLLVIPRQK GSGVDFQQSPTDLQLRDLTDRR KTNKQKGIASTLTKRTSTPKPH LYVTNIKDQRPNPRLIGVPESD GEKGTKLENTLQDIIQENFPNL ARQANIQIREIQRTPQRYSRRA TPVRHLIVRFTKVEMK\EKILRA A\REKGR\VTHKGKPIRLTTADL SAETSTSQKTEWGPINIL\KEK NF\QPRIS\YPAK\LSFFISEGEIK\ YFTDKQMLRDFCHHQTCLP*K TRPALKELLERKHLNM/EKGNN WYQPLQ\NHAQICKDH
7972	38340	C	8027	320	433	
7973	38341	A	8028	9	189	
7974	38342	A	8029	26	738	VAASSFDTCADHLCALHLLQV LHYLAIQKPADLARHLLPCVIH AAVLKVKEESENISSVKKIIK QIISHSSKVLFHFPNPEDKKLEEII HQITNVEALIARARSLAKFGT EKCEQEEEKEDLERFVSCLLEQ PEVLVTGAGRGRGHAGRIIHKLGV NAQNVA\AMTPP\EEELKRMGS PEER\RQNSVSDFP\PPAGREFIL RTTVPRPAPYSKALPQRMYSVL TKEDFRLAVKIIDGDV
7975	38343	A	8030	3	2961	MAADSEPESEVFEITDFTTASE WERFISKVEEVNDWKLIGNSL GKPLEKGIFTSGTWEKSDEISF ADFKFSVTTHYLVQESTDKEG KDELLEDVVPQSMQDLLGMNN DFPPRAHCLVRWYGLREFVIA PAAHSDAVLSESKCNLLSSVSI ALGNTGCQVPLFVQIHKWRR MYVGECCQPGVRTDFEMVHLR KVPNQYTHLSGLLDIFSKIGCP LTPLPPVSIARFTYVLQDWQQ YFWPQQPPDIDALV

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7976	38344	A	8031	1	1688	MREKPCQSNECGKAFNYSSLLR RHHITHSREREYKCDVCGKIFN QKQYIVYHHRCHTGEKTYKCN ECGKTFTQMSSLVCHRLHTGE KPYKCNECGKTFSEKSSLRCHR RLHTGEKPYKCNECGKTFGRN SALVIHKAIHTGEKPYKCNECG KTFSQKSSLQCHHILHTGEKPY KCEECNDVYIIRRSHLERHRKIH TGEGSYKCKVCDKVFRSDSYL AEHQRVHTGEKPYKCNKCGRS FSRKSSLQYHHTLHTGEKPYTC NECGKVFSRRENLRHHRLHA GEKPYKCEECDKVFSRRSHLER HRIIHTGEKPYKCKVCDKAFRS DSCLANHTESSILGEKPYKCY\K CCGGFLIQKGSLPQHQHQRVHTGE KPYECNECGKVFNQKASLAKH QRVHTAKKPYKCNDCGKPLPD QSTLFHHQSNSPIVGVKRYQ\CN DCHKVFSNATTIANHYRIHIEE/ KIKCNKCGKFFRRHS*LVHQ *THTGEKPYKYHDCDKVFSQA SSYAKHRIHTGEKPHKCDCG KAFTSCSHLIRHQRIHTGQMPY KCKGGKVFTLWSFHAEHQKIH
7977	38345	A	8032	25	1091	IHIYSDCSLSLQDSGDEKEFNL DDNVSFRAISLWDLAAGPGQGG GGGREKWRAVISRTMNRKMG KMMVKALSEEMVRPADIGDGV SRPGDRSGRM*AEKMALAFS EQEEHELPVLSRQASTGE*GMR GTPAESGGKDWTAVLVAGPF CGRARVHTDFTPSPYDHDSLKL QVRSASGLLWSLAGCAQKGSW TEPVGSFKFIYVDVLPEEAVGH ARPSRRQSKGKRPKPCTLHELL ERIGLEV*AWSSLVSSIREAQLP QGWGPGHLNELNIMDPQHRAK LLTAAELLLDYDSEWL*ERPGE GAESSQEPM\GEACPKVDIPRDS GCFEGSESGRDDAELAGTEEQL QGLSLAGAP
7978	38346	A	8033	35	437	
7979	38347	A	8034	1	1845	
7980	38348	A	8035	1	212	
7981	38349	A	8036	371	915	
7982	38350	A	8037	1	2460	
7983	38351	B	8038	10	1510	

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7984	38352	A	8039	1	188	SASTTLWGLLIFLIGHRLGTALRA VSSWGTHLTAKEVQWGH/DCG THWSYHHLHQPRAAGHKEC
7985	38353	A	8040	3	2332	FFFMWDPQHF/TFI/VLPQGYNN SPGLYSTVLRDLENLDIL*NIKF LYFIDNIMLTGMDE*EEDGTLE ALVKHLLSRGVKINKPYRDSEV ATAVK/FLQV*WLGASRG\WPS NVKDKLLHLC\WPKGREAHCL G*ALF*VS*HH\PTCKVVSGFDP HF*VT*EECPAWEWSL/QQERTL QQIPGHGAVTILQDPLVLKVPV GGVRFGVELNQAPVGESQWKKG LGIWSKAMSSTAQKYAP/FQSR EICWKQLLACY/W*ALI/EIECLT MGHKTTM*FQ\MPLRN*HLCNS *SHTLDMPQQHPIMRWKSFL*/ D*A*IPMLTSPRKHPNLKWP*TT KQKH/WKL/GQPSPWVSPGRVG WVHKWSKHSGRD/GGYLWVQ QY*LPPTKVDPDTATSKCPTHQ HLNPMIFP/R*GSISLGDQDPK* GVDYIALFPS*KGQRFMFTGICT YSIVGFSCRVVIPSVSTTFWGLL IFVIHRLGTASPCS\SSWGTHLT AKEVQWGH/DCGTHW\SYHHL HQPRAPGP*RMLKRASIGTAQR QLAGST/LCGWEGAIFQDMVHF KNQRHLYSSVISVGRTRGSRYQ GVEVDVAPYPIPSTHLSWDFAL LSQNHHHSAG*KVLDISKGGYP*K ETNECPLNYTLQLP/PGE/FGQY VSRDQRVRRGVPSGPVIDPD PQEEAWLLSHN/GG*EEFWNP /GDPLGGLLV/LPCPIVSRRIVQ
7986	38354	A	8041	1	1296	

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7987	38355	A	8042	498	2219	KSVKTST*DTLRTKAKTGQGHI TGLQPWLGLRIRQEP/SAKTEK KAAIQAKAGAEREATGVVRPV AKTRAKAKAKTGSKTDAAVE MKAWSKNKVVAETKEGALSEP KTLGKAMGDFTPAGNESTSST CKNEAGTDWFWAGEEATINS WFWNGEEAGNSFSTKNDKPEI GAQVCAEELPAAGADCKPRS GAE\EEEENVIGNWFWEGDDT SFDPNPKPVSRIVKPQPVYEINE KNRPKDWDSEVTIWPNA\PAVTP AVLGFRSQAPSEASP/LFIYCSG LR*RKCLFFACGN\SLPPF*EPRS CSQPIPECRFSDPCIQTIDEIRR QIRIREVNGIKPFACPCKMECTY MDSEEFEKLV\SLLKSTTDPLIHK IARIAMGVHNVHPFAQEFINEV GVVTLIESLLSFPSPEMRKKTVI TLNPPSGDERQRKIELHVKHMC KETMSFPLNSPGQQSGLKILGQ LTTFVHHYIVANYFSELFHLL SSGNCKTRNLVLK\LLNMSENPT TAARDMINMKALAALKIFNQ KEAKANLVSGVAIFINIKEHIRK GSIVVDHLSYNTLMAIFREVK
7988	38356	A	8043	1	453	MEKLDDELKIKIDNINGALICARH FSKCSSNAQSHLC\CPYLQAFPGG PG/VRGLPGWPGR\TSRELHG WRGCG/EGLVSGCQTMLSGA\P AGSPQ\PTGGTRAHAVRGRP*V PARSQGSRPLARPGQED*GAAP DFD\PGAAAGVPGVPALQEAAQI
7989	38357	A	8044	3	690	SLSLPSSWDYRRAPP\RN\VF LVETGFTMLTTIVLIS*PHHPPA SASQNAGIV/GVSHSPRPGIACLI TRLDF/HQGTQSRV\ALGSS*PIP HARPRGHTL\ALPYRLYTQTA RGFGQPRVRIPLLSLLGSLKPSE LRGQVGHAFASAIFASAISLCVF TLLVEGKLKPPGASVRRCLQSN RDLGFRATFPTSHRGHGALGLN YISQRATGTPNLWLPFRFRVVL LQAACG
7990	38358	A	8045	106	299	
7991	38359	A	8046	306	445	
7992	38360	C	8047	570	926	

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7993	38361	A	8048	47	988	ASRPGSRVSLMFGAACGRQPDRS SSSPGTSWPPVEPMEELVHDL VSALERELQSKPRGGFAEPGDP FSEVY/PCPLKRPARKRRGRKR RFV*CASPVGGLVT\A*SEGSDS SFRRTKSKKRKLKIIRQGPKIQD EGVVLESEETNQTNKDKMECE EQKVSDELMSESDSSLSSTD GLFTNDEGRQGDDEQSDWFYE KESGGACGITGVVPWWEKEDP TELDKNVPDPVFESILTGSFPLM SHPSRRGFPTKTQSAFMECLQRI LKNLEGLQLQWYPFLAQWVTR EWFIFPRILITMTIGLALGLQS MTSISF
7994	38362	A	8049	3	476	LTRPVD*RPGTIHLGRGVRARP ANRRRQRARRGAISPPGPCSV AGFLRGRLG/PEPGDNGQHLGE PWLGCGSLFA*RA*CSRSTRCT* RRRAPGDRELPRAPATWAPPIK LVPRVFSSKVQGVSGLVEAM CLGQDSILNQSNKHNSVASSNT ITVIG
7995	38363	A	8050	2	143	
7996	38364	A	8051	1	161	
7997	38365	A	8052	3	1189	ESPLLGHHSSDAARRRSVSSFP VPQDNVDAHPGSGKEVRVPAT ALCVFDAHDGEVNAVQFSPGS RLLATGGMDRRVKLWEVFGEK CEFKGSLSGSNAGITSIEFDSAG SYLLAASNDFASRIWTVDDYRL RHTLTGHSGKVLSAKFLLDNA RIVSGSHDRTLKLWDLRSKVCI KTVFAGSSCDIVCTEQCVMMSG HFDKKIRFWDIRSESIVREMELL GKITALDLNPERTELLSCSRDDL LKVIDLRTNAIKQTFSAPGFKC GSDWTRVVFSPDGSY\VAAGSC *RALLYIW\DVLTGKVEKVLSK A\HSSSHQCGWPWSPSWARTF VSVDKGCKAVLWGTVLTGLSG LGGPQCPPHEEAHGLLQPWSW QVNVLGYSMDLPEKLKANVGH

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7998	38366	A	8053	116	921	LSKSNRCW*GCEEKGTIHCW WEC/KFNPLLKAI*RFLKELKVE LPLDPAIPSLGLSKIGTGKKVW QRLPNCPTISLFSFFHKNRHTGT YRRRFLDSLAVRPCPCNPATFGS KSDVCNFVWMPSTGKKCALPS HPLFPNGLNADVVCVLDSENLS QKILLILEVSDDSILGKLSHKNII QHDCIEEPLTLLRNTQQFRFLCI ACHGCTSQYSTFLVKASWTRS QGLIQRQPSAGSGYPEKLFSEG AGDEGVDLLPLLAKPASPDEQL
7999	38367	A	8054	35	422	SCSEVTEASWGSVPELRDAQLG VGLHSPTYRHPHRETLTCCPAG TLQAWPFCCGRIRVRVPVSWLGE PGRGLIPGSGSAASSECLPGLHG RAPLGTSCRPGRPLP/WNQPPPR LAQPGHRDPDADAATERPGLQ RPSRTACERFPMGVSVRRVEA HSQLGVPPELRD
8000	38368	A	8055	3	277	GPPRPPA*RGHGGRPENT\PAPP RWPPPP\PRSPAPLPPRACADV THPPVPTPGKRTPPPPIGGAPAAR AAPRRPAPSCFSAPTPGCSLTG
8001	38369	A	8056	3	179	PPPHPQGPPPPGRPPGC*RPI/QG RQVFSMKPGRTPERTAWS/PPY PGCLGSRPRRPSAPA*SGAHCV VAPYPGCLGSRPRRPSAPA
8002	38370	A	8057	3246	4682	ENTLSFASFFFFFEMLSLRPGW SAAAPCQLTAASTYWVKRFSC LRLPSSWDYRRAPQHPANSFCI FSRDRAL/TMLVRLVNS*PQVI RLPQPKVLGL*ACCGFCSGSS GMAPGCRVVSHAGAPGGGTR PP
8003	38371	A	8058	3	718	LTRLVLSPDAPD/RATHLIAA/R AGTEKVHQ/AQE/CGHFHVNP DWLWSCLERWDKIEEQLFPLR DDHTKAQRENSTPLPDREGIPP TALSHPMPILPKAQPSPEVRIYD SNTGKLIRTGARGPPAPSSLPI RQESSF/RVDDILGEGSDDSDS EKRRPEEQEEEPQPRKGTRRA RTLGA PASSERSAAG/SRG/PRG HKRKLNEEDAASESSRESGNEY EGSSSEADEMAKALEAELNDL
8004	38372	A	8059	273	468	NVKGTAANGD*G*RGEAAPA\G RSRARVPEDAASESSRESSNED EGSSSEADEMAKALEAELNDL M

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8005	38373	A	8060	1	2886	MEVPAAGRVPAAEGAPTAAVAE VRCPGPAPLRLLEWRVAAGAA VRIGSVLAFFEAASAQSAGAS QSRVASGGCVRPARPERRLRSE RAGVVRELCAQPGQVVAAPGAV LVRLEGCSPVVMKGLCAECG QDLTQLQSKNGKQQVPLSTAT VSMVHSVPELMVSSEQAEQLG REDQQQLHRRNRKLVLMDLDQ TLIHTTEQHCQQMSNKGIFHFQ LGRGEPMHLTRLRPHCKDFLEK IAKLYELHVFTFGSRLYAHT
8006	38374	A	8061	2	680	
8007	38375	A	8062	658	1657	PGILSLRNALLTGVDCKVVVPV PPGHTHPQLRLFHFPKTCGW GEWDHGTVWAGPAPA\YHL HRDVQALWTNDHALAW\P*AM TSERTLWPGHELSARPGRSWRI SCPTGL\PQGGDDRTRGHWVTA TCCSADGLRLCRYGD\GVRGGL PTVAWP*LTGSCSLRYGSGQQC CYTADGTQLLTADSSGGSTPDR GHDWGAPPRTPPRVPMSHW LYDVLFSYYCCLWAAPDPGKD RAGLGCTPT*PSTLTLASAFGDP HFVTFDGTNFTFNGRGEYVGM G*NQGGRLEPSGSRSAPTTAGT ETRGTGLTAVAQEGNSDVVE VRLANRTGPER
8008	38376	A	8063	873	1791	RCAGCPHSSSFFERGQ*AAVGP CCHGGTYRKASSV*RVSV*HPP HDRGSRK/QSLSGR*STGLS*MP SGVASSASV*FVNVFSLSSSN*L AQSTARFPPGSVRGLGQGRAG GG*APGHGADHPTGRQHS*GSP APVTWLWWPPPRHQAAALAPAP STTPYDNSPLHCRPGPSQSSH HSALPGT/SVPGSSPLEIVPGSSL YVS*SLIRALAAPISSSSVGKNC RCTERLAIKPAAESCRTSSAG QSVFSRFTSL*AFTG*AR*PSAS AADLLVKASILLAQLLILELAS STRMYSFRDCTSSFSA

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8009	38377	A	8064	2	935	YSPARGSGRGDLSRRPGAGRRA GQGPQVGAPKPGGAEYVRWA AGGMKGAGGSSGSGSGSRE AG*PGVPRGRRGWRTPAEPPG WGPGRQQACGA*G/EGRAAAQ VGGAPAAAGGGVAREEAPS*P GDAAGGSCTPGAASVQVSAPP AQPOINLSAGARAGVARRCVCP RGAES*GPGPDPGPGSRR*PPAA QSGPPPCCPSALFLHPSGFLCRRP QPSRAQGGEVSGALRAVPRLSG GAGNLAALPCQLPGSGGLTPGC /QASQGLGVGLVRAQPAWSPL DGPLDQKVFPQTSLWNQRCFS LAAAGPVIIR
8010	38378	A	8065	3	367	
8011	38379	A	8066	2	1246	TPAWSREILAEELCTPPDPGAAF VVVECPDESFIQPICENATFQRY QGKADAPVALVHMAPASVL VDSRYQQWMERFGPDTQHLVL NENCASVHNLRSHKIQTQLNLI HPDIFP/AAHQFPL*EGGPHPQC AHGSG*MPPQVPAPFQE/WSAR GMPLLLAILRNS*LRRCSFPTSS RAIQEYRRSAQDGPAPAEKRS QYPEIIFLGTGSAIPMKIR\NVSA TLVK\QSPDTSLLDCGEGTFGQ LCRHYGDQVDRVLGTLAAVFV SHLHADHHTGLPSILLQRERAL ASLGKPLHPLLVAVPNQLKAW LQQYHNQCQEVLHHISMPIAKL PSGRWLRSPVLQWKD*FSSLR TWIWEEFQTCLVVRHCKHAFGC ALVHTSGL\KVVYSGDTMPCEA LVRMGKDATRKQADELISFQG
8012	38380	A	8067	121	880	GAAASQLPAPQPVPGGPAPH QYDSCQMPSPRG*DLQSCSGKI DQFA/AWTTCDLEEFQTCLVRH CKHAFGCALVHTSGWKVVYSG DTMPCELLVRMGKDATLLIHE ATL\EDGFRKREA\LEKTHSTTS QGHSAWMRMNAEFHY/VLN HFQARRY\SKVPLFSPNFSEKVG VAFDHMKVCFGDFPTMPKLIPP LKALFAGDIEEM\ERREKREL AGAGRPSCSRAGRRPLEDGE QQKRAHTEEPQAKKVRAQ

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8013	38381	A	8068	1	607	SPGSWETRLVVWSFYRSCKHS LCPCLVGEFLVFNSPMQSGSAG EPPRLQF/GAPLPGAAPGNYRRT GRGREGPWPPLAPSLFAFSDL GSSPGRTSWRPPAVSRLLGPTFP PPAPGRGRPRRAA*TGPSAQ/PP RSLSTLSPAPAAPAVRTAPPVAS PRAAPAPLRAITLLATKSEELPV VSFFSSRLVLAKRPKRLAQMH WGH
8014	38382	A	8069	1	290	QFLDAESGSAGEPPR/LAVPAPF PGGAPGNYGRTGRGREERSWP PPLAPSLFALSDFGSSPGRTSRR PLAVSRLLGPTFPPPPLPPAPGR GRPRAAP
8015	38383	A	8070	1	565	SPGSWETRLVVWSFYRSCKHS LCPCLVGEFLVFNSPMQSGSAG EPPRLQF/GAPLPGAAPGNYRRT GRGREGPWPPLAPSLFAFSDL GSSPGRTSWRPPAVSRLLGPTFP PPAPGRGRPRRAA*TGPSAQ/PP RSLSTLSPAPAAPAVRTAPPVAS PRAAPAPLRAITLLATKSEELPV VSFFSSRLVLA
8016	38384	B	8071	475	913	
8017	38385	A	8072	145	275	
8018	38386	A	8073	1	310	VEELTARTGGGAPPGCQADAK RMPQFPPQRTPWGHGFAGAPFP ISKPHGPPAGQL*PG/PSCEQT/E PPSPVNVTVTHLRANSATVSW DVPEGNIVIGYSISQQV
8019	38387	A	8074	1	483	GSHRVGRWAALCDRAAPRGLT NRETGGGAPPGCQADAKRMPQ FPSQRTPRGHGFAGAPFPISKPH GPPAGQL*PG/PSCEQT/EPPSPV NVTVTHLRANSATVSWDVPEG NIVIGYSISQRQNPGQQRVIRE VNTTTRACALWGLAEDSDYTV QVRSIGLRL

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8020	38388	A	8075	2	854	RPPAARARRWLPKPSPARRSRR PAHRCSSRRRTCTPQA TRPGMR *APAAACGPTGRRS/RLPALKL ALEYIVPCMNKHGICVVDDFLG KETGQQIGDEVRALHDTGKFT DGQLVSQKS DSSKD IRGDKITW IEGKEPGCETIGLLMSSMDDLIR HCNGKLGSYKINGRTKAMVAC YPGNGTGYVRHDNPNGDGR VTCIYYLNKDWDAKVSGGILRI FPEGKAQFADIEPKFDRLLFFW SDRRNPHEVQPAYATRYAITV WYFDADERARAKVKY/RNR*K RCEG
8021	38389	B	8076	1	205	
8022	38390	B	8077	1	806	
8023	38391	A	8078	1	2279	MKVGLDQIIEVVPSHSVTSGAA AGECGGVHCDSVCAEGRWGPN CSLPCYCKNGASCSPDDGICEC APGFRGTTCQRICSPGFYGHRC SQTCPQCVHSSGPCHITGLCD CLPGFTGALCNEAYSQ/SCPSGR FGKNCAGICTCTNNGTCPIDR SCQCYPGWIGSDCSQPHCADKC VHGRCIAPNTCQCEPGWGGTN CSSVKKQSTVCES*KCEPWEER PCGGLHWDIAG*/P/GKHGGYL NELGAFGLDRSYMGMKSLKDLG KNSEYNSSNCSLSSSENPYATIK /GPTCTYPEKLRVWLKGDEIAG TKRFPICRDQ*LNFSQQECL*S* TYSECCPRSIQQ*WASFPGSI**PP KNSHIPCHYDILPVRDSSSLK QEDSGGSSSNSSSE*/APKDR LGLLV**RS*SM*TNRALKHPK QPGRKGPKI**HGTWKSSQEK/ HAEEQSGKLAATLCGKDWLQ REGWPYILSRMFL/CFISTDGRE SESLWRKNSNGNSKFKF*WGRPG KCGL*EGQREEVWGLGNLSLYC LAGQL*CLDCECHH/GFQECCP VLGHSGWGYKS/CLNRNPLKGLS SRCAGLAVRDSLAPNSQGWKA TFDFPSLECPGTYGYGCRQICD CLNNSTCDHITGTCYCSPGWKG ARCDQA/GCYHSWKSEQLKPN QYCSPC*FLPDRGHCRHHSCP SCSLPTGIVHYL*TQAEGKGKIH
8024	38392	B	8079	1	2909	

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8025	38393	A	8080	332	602	NSLNSRWLKGLPGAPGIQEIKE MWRCMSSICQKEGWRMTAGS LGHHRSLLHVQ/AGNDVDRT GSLPASVR/QHAYYTASSVEGR VSYKLYT
8026	38394	A	8081	2	422	FNISLGFAACPLRIDFFGWFFFVFF LSWSFTLFAQAGVLWCDLGSL QPPPLGFK\KFSCSLPSSLDYRC LPPRLTNF*FLVEMGFHHVGQ AGLELLTSGDPPASASQSAGITG MSHRAQSAALSKF*SGISKRY FIFWA
8027	38395	A	8082	1	951	
8028	38396	A	8083	1	924	
8029	38397	C	8084	271	738	
8030	38398	A	8085	1	575	
8031	38399	A	8086	2	332	
8032	38400	A	8087	1	897	
8033	38401	C	8088	181	804	
8034	38402	A	8089	1	1923	
8035	38403	A	8090	294	2340	EKCRHNCSR伟WQSLVSQSVW ATEGQYGRTKNARPVQVK\DS ASFYQRRYPLRLEAQQGLQKI VKDLKAQGLVKPFNSPCNTPIL GVQKPNQWKLVQDLRIINEAI VPLYPAVPNPYTLLSQIPEEAE WFTVLDLKDAFFCIPVHRESQF LFAFEDPSNPTSSQLTWTVLPQG FRNSPHLFGQALAQDLSQFSYL NTLVRLYDDLLAAHLETLCH QATQKKTGIALGVLTVQQGTSF QPVAHLSKEIDVVAKGWPCL WVVAAVAVLVSEAVKIIQGRE LTWWTSHDVSGTLTAKGDLWL SDNLLLNQALLFKRPVRLHTC ATLNPATFLPNNKEKIEHNHQO VIVQTYTIQGDLLEVPLTDPDL NLTYNGSSFVEKGLRKAGIHP RQWTPLWPKAQPEMLSQRQVL ESGILKAFLVPYLLVAVLGSIDF NGKPPVAVFSLSQAHRFLCAT WLLLGYGEVWIHSHTAIKYQ RRRSQDGRIGTAPVYSSQRERR RRRVISAFPSEGIPTDQLRLVS VRKTKNQKGPHQKPICTSPS SRPKVDKTTKMGKKQNRKTGN SKTQSASPPPKERSSSPATEQSW MENDFDELREEGFRRSNYSSEL EDIQTKGKEVENFEKNLEECITR ITNTEKCLKELMELKTKARELR EECRSLRSQCDQLEERVSAMED

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8036	38404	A	8091	158	865	NPAARTPFFVIKKGGKRGEGL AKAGAIIHLNIG/GTPVCCPLLE EGINLEDWATEGQYGRAKNAR PVQVKLKDSASFPHQRQYPLRP EAQQGLQKIKDLKAQGLVKAC NSPYNNPTLGVQKPSQQWRLV QDLRIINEVTVPVLAVPNPYIL LSQIPEEAEWFTDLDLKDAFFCI PVHPDSQFLFAFEDPSNPMSQL TWTVSPQGRDSPHLFGQALA QDLSRFSYLGTLVLWYVD
8037	38405	A	8092	1	748	MNQSDQEMTGAFVHMKSYTG LISGVAVKMERHIYQDRRIAIKEK EFNSCRTGCMGDWSFTITQIRL LENTGIRVFKDNLVEEAEWFTV LDLMDAFFCIPVHPDSQFLFAFE DPSNPASQLTWTVLPQRFKNSP HLFGQALAQDLSQFSYLDTLVL RYMDDLLAAYSETLCHQATE ALLNFLATCGYKVSKPKAQLCS QQVKYLGLKLSKGTRDLTTFLP VNEEKIE/P*LSTSNC SKLRC SRG TSRGSLG
8038	38406	A	8093	194	1377	NPAAQTPFFVVKKGGKRGAGL LHRQYPLRLEAKQGLKKIVKDL KAQGLVTPCSSPCNTPTLAVQK PNGQWRLVQDLRIINEAVVPLY PAVPNPYILLSQIPEEAEWFTVL DLKDAFFCIPVHPDSQFLFAFED PSNPMSQLTWTVLPQGFRDSLH LFGQALAQDLSQFSYLDTLVLQ YMDDLLLVTSETLCHQATQV LLNFLATCGYKVSKLKAQICSQ QVKYLGLKLSKGTRALSEERIQ PILAYPHPKTRKQLRGLLGITGF CQIWIPRYSEIARPLHTLIKKTQ KANTHLVRWTPEAAAFQVLK KALTQAPVLSLPTGQDF\SLYVT EKTGIALGVLTQHYGEERNS*L PTEYLSNIRKPLGDYYWLYRNRL KRWQS YTARVIRKERKGK
8039	38407	A	8094	3	521	

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8040	38408	A	8095	1	3203	DSPLSTKAMLGMLVKDHWS AQTPEEVIKEGGKRGAGLLHGQ LILDKFKTQSAADIKEKLQKST LGPERNLKTLLNLATSVFYNRD QEEQAERDKRGKKATTLVMA LGQADFGGSCTRKA ANRMP NRAYFQCGLQGHFKKDCPSRK PVCLTIESQE VNCLL DAGAAF SVLLSCPGQLSSRSVTIRGVLGQ PVTRYFFQPLSCDWGALPFSHA FLIMPESLTPLLEREILVKAGAII HLNIGEGTPICRLL
8041	38409	A	8096	13	183	VHLHPQGHVPVKHTPTGLGYS SCRHLLLGRACY*KGEVGAKA GMQVSDALPRLGGVS
8042	38410	A	8097	1	2427	MSKFSCASLTATESDGTP LMEQYVPCPV CETA WAQHTDPSEKS EDVQYFDMEDCVLTA IERDFIS CPRHPDLPVPLQELVPELF MTDFPARLFLENSKLEH SEDEGSV GQGGSGTVIYRARYQ QGPVAV KRFHIKKFKNFANVPAD TMLR HLRATDAMKNFSEFR QEASML HALQHPCIV ALIGISIHPLCFALE LAPLSSLNTV SENARDSSFIPL GHMLTQKIA YQIASGLAYLHK KNIIFCDLK SDN ILVWSLDV KE HINIKLSDY GISRQS FHEGA LGV EGTPGYQ APEIRPR IVYDEK VDMFSYGMV LYELLS GQR PALGH HQLQIAKK LSKG IRPV LGQPEE VQFRRI QALMMEC WDTK PKEK RPL ALSV VSQMK APDF CHLV *TVLWEAD SLLIP PGPGV HRGV LGW KRGV QEL HGG NTEK GLM EVQR MCCPG MKV SCQL QVQRS LWT ATED QKIYI YTLKG MCPLN TPQQ ALDTP AVV TCFLA VPVIK KNSY LVL AGL ADGL VAV FPVV RG TPKD SCSY LCSHT ANRS KF SI ADE DAR QN PY PV KAME VV NSG SE WY SNG PGL LVID CAS LEIC RR LEPY MAP SMV TSV VCS SEGR GEE VV WCL DDK KAN SLV MYHS TTY QLC ARY FCG VPS PLR DMFP VR PLD TEPP AASHT ANPK VPEG DSI ADV SIMY SEEL GTQ LIHQ E
8043	38411	A	8098	1	1641	

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8044	38412	A	8099	1	1075	VLHKFPYRMVPALPPKRLGADREFIARRRALKRFVNVLVARHPLFSEDVVLKLFLSGSDVQNKLESACQVGDEFLNCKLATRAKDFLPADIQAQFAISRE\LRNIYNSFHKLNRNAERIAS/RAIDNAADLLIFGKELSAIGSDTTPLPSWAALNS\STWG\SLKQALKGLSEVFALL\ADKAAQQGKQ\EENDV\WEKLNLFLDL\QSY\KDLCE/RGHEKGVF/HTKHQRALAQSTA*LKRPD*LSATGAEPRSSPEVRGSKLKSIRGARENAI\QTMELRNYFSLYCLH\QETQLIHVYLPLTS\HILR\AFVNSQIQGHKEMSKVWNDLRPKLSCLFAGPHRT\LTPPCSPPEDG\LCPH
8045	38413	A	8100	1	974	MPQVPAP/PLPSITSGHPGEPA RPSCSCLFSPQPCNSITPSSLLRQLAVAAAGGC GGHGAPALSSTGWQQVCKSPQVRSPVDNPTADSTASLAWKFGEVLRSHINCYK*KQQPLLPVHAQRRAQVSAPPAGLSCGQHSLPQPPRCSDLSLGLHPGRLPCDRGHCPLLPPVTPTPDKAGPILDPAQSCPFCSPIAPPKQPSPPARFPEMKRKKTLM MPPSEGSLSLASGMEASFQRL LSRCTCLDQATVIWGFCYMQV QASQGIPCRGKDELLRLAPLPV KEARRTKPRSPGKHAKAPPSSS ACSPHLCCSSPILQALD
8046	38414	A	8101	1	460	SLQAPRRNSRAEHTRTLNSECP RRRRCCCIKGCTYT*LDAVP\PPP VLDWLVQPKPRWLGGNGWLLDGPEEVLQAEACSTTEDGAEPL LCPSGYECHILSPG\DVAEGIPNRGQCVKQRRQADGRILRHKLY KEYPEGDSKNVAEPGKG\QQRH
8047	38415	A	8102	3	219	NNHRLDRTLPRDYCHAATAYT THELAFGDFRLPTEGHQELCHNSHЛИYFRRDK*THCTWRSVDSL TGVTHR
8048	38416	A	8103	230	555	NVRPS*ALQAPWGRHHLCVTP MQLRMTLVVSSLGKGTCGLSLAQ/CAPVQEGTHGGSPVEGWLAATRTCEGCRRENTMKNVGSR KYAFNSLQLKAFPKHYRPPEDLRKS

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8049	38417	A	8104	23	304	KGFYLFNKQTIEQTNNNGSKSFA KRNTEGHDDLLLQGFQGSQTPS FLSSSGRCYSWGAIGPVQFGALS G\FSFPFPHSAANRQSSALDFWIT TSISF
8050	38418	A	8105	99	375	VLEFGALSGSLSISPLCTIPALVE PPCGPQPSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSPQGVQ LPLGPR\RLKMNTEPPTRP
8051	38419	C	8106	5	376	
8052	38420	A	8107	545	990	GLCHVLQPCDPCLPGTMQEAQ PPEVLKTAGKAGGQEPG*L*RIP *GSLCPPCPVAFGAAEELPLPSS DPVSRTGAPPQG*WLGFGYFS SNEGPSQAGG
8053	38421	B	8108	252	801	
8054	38422	A	8109	169	1226	PNGLRPPCPSPASETPGNAPVCD PGSSSQGAQGKL/KPGGLPGWL FPFFAQPSSEG/GLCPCPVAFG AAAEELPLPSSDPVFRGAPPQG GSW/PI*SPGSRSGTRADPVKGE VAGRERCLPLIE*ASPGPPHSG* AGQVPGAGPPRTAG*GV*TGTA PCPKAQPRK*QR*R*RCSS*VG* ESAEIVCPQGDAEG*RKGSP*G/ SHRRNVPS/RYSNSHGPYDSNQ PHRKTKITFEEDKVDSLIGSSS HVEWEDA VHIIPENESDDEEEE EKGPVSPRSRKRP/PSATRAAA SRLRGS*TLGGLLGCIFAFFAPP SPTEGACAHPAQSLGPLRSFRC HLRILCPARGLHQGRDDG
8055	38423	C	8110	58	504	
8056	38424	C	8111	203	1874	
8057	38425	A	8112	32	1026	KLEQCLHSVSTWETPQYRRPP SPS*RGSREQCSFSSPRDTPGE NHWSLPQRD*AGPPVR/PSAG GFMTP/PPRGVPTVEVPPDPTC/S PNHTRPFRPPSKNPCFRFPEPL RAPTLVPGPLPPTHPGRVPHLE RNLSALGLKSEGLKRNPCFVEP /PAPTPIRFPKITGTLPLR/PAADH ALLGMRDQSLSGQSPGPKSPDA DDQLQNRDHTETEQRISGRSS ALAPESQLQQGCAGIHFGRRFC KAPPLASGPA/RPPCLSPPPWW APVRPKPPR*APPPAP/PVPSPIN HPRAEECGRTARDWQAAPLAA LVRDPLDEASWAPESGGDVEN LYV

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8058	38426	A	8113	3	909	TEGGASHRAHPVGPAPRG\KRH SGATEPANGTWARRRGPGRDS SNQSSGGGERSQLRHGRGWRL SRPLLPPGAASPLAGEDPERNA G\GWRGGAAPMRPKRGPMNGG GCGPGAGSGAGGEALGRGRGA VSGCRPAPPVRPPPPPPPPPGG WLRRTAGSGPEYV/GSRCARGS GQVSAGGGLCARAARGGKLA PRLRALRGRSPWPAPLGRSPAR APARVPAGRCGPGA*RGRCAL GQQGEEGPAGSEGAGRPLPGRP GCPGTSPRLLPRRPVRKTDVGN RSSFFPRAPGRAPHAQCPQTQFLII
8059	38427	A	8114	1	454	
8060	38428	A	8115	2	172	MFIYTSIFI*QFTNSINIPI*TSFC *TASVHLSCIVAVFCFHPCQCSS SFIQCTTN
8061	38429	A	8116	1	594	LAPVFKLIPMPVS/YGIFLYMG WAALSSIQFTNRVKLLLMPAK HQPDLLLLRHVPPLTRVHLFTAI QLACLGLLWIJKSTPAAIIFPLM LLGLVGVRKALERVFSPQELLG LDELMPEEERSIPEKGLEPEHSF SGSDSEDSelmanisv N*LE*ESGSGDPRKQHEVLTQE VRTFLAFGLTSRCCSVGLGKD
8062	38430	B	8117	1	3402	
8063	38431	B	8118	1	4614	
8064	38432	A	8119	3	435	DHAKLGTRTSGMRPHSLSLCFF SSSYDILMRTKDRVKNLTCITY TILPTDLQPGCGLPRSFYPSK TSFWLWACKLFPPPLPISFNPSA HSKTAHGHSKGKHTEAGM*WS* TGEGITGRCCFVSIKAPPLPSSG PVGGPVGG
8065	38433	A	8120	1	525	MALLPTVLCLWAQAQFLVDLG QSNSKHQEHLAPDVAFAKMKGACVCAAGFRGWRCEELCAPGTHGKGQLPCQCRRHGASC DPRAGECLCAPGYTGTVYCEELCPPGSHGAHCELRPCQNGGTCHHITGECACPPGW/IG/TV*GPPSPGSL LGCLPRETSISLISSIQLCLYLLL

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8066	38434	A	8121	1	1050	MLIMTFHGLLPCMQMACKWQ LRLVLVAGIRCDSTCPPGRWGPN CSVSCSCENGGSCKDGSC APGFRGPLCQRTVHILYPRGCGI RDVGESGNRKQKAVEQYREH WTVSPEVQCSASHFSSVRPKSA CPPGFWGPACFHACSCHNGAS CSAEDGACHCTPGWTGLFCTQ RCAPGTFGYGCQQKCECMNNS TCDHVTGTCYCSPGFKGIRCDQ GIMLL/CPHCGAAGPICLASAA AEREGPRPGSPCLLHTCHEDDQ HRLLPLSGANSIPTYR*SGRPDS PLRTEALILPQ\CQKFSGSQGEV CAVSCAAGTYGPNCSSICSCNN GGTCSPVDGSCTKEGRIICLQ
8067	38435	A	8122	3	732	IRCDSCTPPGRWGPNCVSCSC ENGGSCSPEDGSCECAPGFRGP LCQRICPPGFYGHCCAQPCPLC VHSSRPCHHIIGICECLPGFSGAF CNQG\QAPTNPSPGWYRS*EM TDPRCSCR/CLSGESTRHTSPVL LGTDASETQVIGFVNLAQFLIIC PRKLHYKAQNSKKNSNGSDASS DWKDWGIWDRESCEELCPPGS HGAHCELRPCCQNGGTCHHIT GECACPPGWTVGA/HC*ALCCP
8068	38436	A	8123	77	864	PAVPEL*VFQAKPERKSRYWQL HFFPHSSSPTSWRKSLEPMYRC TCPPLTPYGCTCPPLSPYRRTCP PLTMYRRICPPLTPYRCTCPPLT PYRMFSSPLHKEITSQAQRSPEPS SRPHSSKAALR*QPRIMEKQRI YGPSPTSVQPASPPPCLDDPRKK AERPDRATGKRHLPETSL/YA ELVRRAVENPEDSEAPAPAA LSPASEHRTDPIQETKKARKSSD NDGSTPLAQTPTRRSSQWPRLG QFQQQEDDSSGLYSTG

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8069	38437	A	8124	314	1188	KHFLNFCLPYMILNKYRNQYCT FNDDIQGNKIFTAYGSITCLKLV HNCIKKIWLVDSDKGLIVKVRIC HF*PE*R*LCHSGWPSNLEAIVQ EIKPTALIGKHFLSLLPYPLF*P DCFFNERPIIFALSNPTSKAECS AEQCYKITKVK*NYNRYFNNQI FIHYREATLYPGQGNNNSYVFPG VALGVVACGLRQITDNIFLT EVL*NPLSLPRV*NTKCAQPRN TIRDVSLKIAEKVKPLLFLHYF SFLFLNMQEAFVRSQMYSTD YDQ\LPD\CYSWPEEVQKIQPQ
8070	38438	A	8125	1	1115	SPAQVMFQCLWKSCGKVLS SAMQRHIRLVHLGRQAEPEQSD GEEDFYYTELDVGVDTLTDGLS SLTPVSPTAS/IAACLPPGAAR AAGAPSPA*SPAACCPAPAPAP CPEHRC*PPVLSQ*PCLPRAA*R PPAWSRMPRRLEPAHPPCPPGS ESS*GSPAATRISAGM*YGMEA PGPPGAQPAAGRKP\PAVPLK SGSFKNIKLPPSPSPPPPGPGAET ARRNKPQGAGPSAAGSAFNW VGVPDLTLEPFPPPGPGEGSPT QS/SPLKKPSFLH*SPNPHPLSPF TPKGPGGSHPSRLSARRFIKGV MGPALGGQSRCTLRGVGEGTP PLALNSTALGPWGCFYPCFLK LQVSHVWAATRRREKLKI
8071	38439	A	8126	116	333	KLRDRCLSH*K*NGASPRPTN VSIMRPSLV/SLVHHSGL*FPQM LRALS*LRVFGVAVSSP*MVPL NPCISH
8072	38440	A	8127	5	829	KPSPQPPCPRPGRPRARFLRRSP DVEKIPFA*RPCDVRGRPPAGG ARRAASLG/PWVRRRLQARPG /LFRPRDFYLRSRSPSYGTRP*KSP QSSPRGSARPDP\GPA\PPPEPPV KRARGVLESSRHAAPRRVFHL GREREQSQE GPAWPKRGRPAPS PQRTATWRPAAGGGK*GSAAT S*ARAGPARRGKRRG*EPREN RAGRPATRGRPPGRCCPPA*S PRPSKRSSPLCSPRPSWPPTRPS KSSYGASLARTTTLQWKFSVNL IRKQIRDAQ

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8073	38441	A	8128	5	844	KPSPQPPCPRPGPPRARFLRRSP DVEKIPFA*RPCDVRGRPPAGG ARRRAASLG/PWVRRRLQARPG RFAPGTFTCGAPRSYGTRP*KSP QSSPRGSARPDP\GPAASARATR EAQSARGLGELAARGSQAGLP LGKGARTEPGGSS/CSQGPAWP KRGRPAPSPQRTATWRPAAGG GK*GSAATS*ARAGPARRGKRR G*EPRENRRAGRPATRGRPPGR RCCPPA*SPRPSKRSSPLCSPRPS WPPTRPSKSSYGASLARTTLQ WKFSMNLIRKQIRDAQ
8074	38442	A	8129	795	914	RGIRLASEMYPLTCFWRS*LYR RGSLARIALVNCRNAL
8075	38443	A	8130	4073	5350	YSLKSGSVTPLALFFLLKIDLA MQALFWFHVNFKVVFVFPNSVKK AIGSLMGMTLNL*ITLGSMAIFT ILILPTHEHGMFFHLFVSSFISLS NGL*FSLKRSFTSLVSWIPRYFIL FEAIVNGSSLMIWVSVCLLVY KNACDFCTLILYPKTLLKLLISL RRFWA\GQWGFLDIQSCHVQTG TI*LPLFLIEYPLFPULLNCPGQN FQHYVE*QW*ERTSLS\LPVFKG NTSSFCPFMSMILAVGLS*IALIIL RYVPSIPNLLRVFSMKGC*ILSK AFSASIE/YNHVVVFVFGSVYMQ FLLVPLVEFGCESIWSWTFFGW *AIDYCHNFRSCYWSIQRFNFFL V*VS\GRVYVLRNLSISSRFSSLFA *RCL*YSLMVVCISVGLVVISPL SFFIASI*FLSLFFFTSLASSLSILL IFSKNQLLDSLIF

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8076	38444	A	8131	1	1715	MDGISGGKRALRERHSKSKAL GRCFPWTNTTPPALPGITNDTTI QQGISGLIDSLNARDISVKIFEDF AQSWYWILVALGVALVLSLLFI LLLRLVAGPLVLVLILGVLGVL AYGIYYCWEYRVL RDKGASIS QLGFTTNLSAYQSVQETWLAA LIVLAVLEAILLVLIFLRQRIRI AIALLK EASKAVGQM MSTMFY PLVTFVLLICIA YWAMTALYL ATSGQPQYVLWASNISSPGCEK VPNI\SCNPTAHLVNSSCPGLM CVFQGYSSKGLIQRSVFNLQIY GVLGLFWTLNWVLALGQCVL AGAFASFYWA FHKPQDIPTFPLI SAFI RLT RYHTGSLA FGAL I LT VQIARVILEYIDHKL RG VQN P ARCIMC*FKCCLWC LEKFI KFL NRNAYIMIAIYG\KNFCVSAKN AFM LLMRNI VRVVVLDKV TDL L LFFGKLLVVGGVGVL SFFF S GRIPGLGKDFKSPHL NYYWLPI MRNPITPTGHVFQTSILGAYVIA SGFFSVFGHVCGTRSFLCFLGK DLGSVNNGFPGDRPYY/MVPRA FLKILG\KKNE\APPDNKKRK
8077	38445	A	8132	1	208	GTRASSPAPCPSSSAPAHSFEAC CCRMSLWGSCGGSGDGSSACG SGWNLSMAGTSCSSPAMCSPSR APS*RSASRPRTWRATTSAASS WAPRRCWCGWA*SAT*PSSTTT ISSSPHCWGWP C PASCASAA AWL SSTWATASVAGSCWGPIM*SSA PAHSFEACCRCRMSLWGSCGGS GDGSSACGSGWNLSMAGTSCS SPAMCSPSRAPS

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8078	38446	A	8133	28	1956	SRAARERGRSDSGGRSDPGCPA VPACVPRSRPSMTAPAGPRGSE TERFLTPNPYGTQAGPSPAPPT PPEE/VRPSPSS/TNTFS*VPATSF EPRAASPAS*CCKWSRSWWSR CSSSCLGSVISWL*HSGKRTPSP SDTSSCWATRTERMTPSQPTRG SSCTRPSSMLWT\SAGGRAGAG GQAGAVPGVA/WTCHWAGLLS ASGTTTEATWTRPTTHLTLIRW WLLTASRWIPPSGPLRPPATISP SWKAAPVTRTSRSNSTACSL EGGPGVSTWQGTLALGAGRDP KTPLTLTRASCLGWSMSPSTSG *RPLTSRASSIMRSRTAIPSAS*S RLTTKHTVGGSWAWRPRPTSR SVSTPVSSSTGGQQQLPGSCLTW WSYSPAPCTSS\ SPLTPSLPAA EQSLWGSCGGSGDGSSACGSG WNLSMAGTSCFVTSVDLHHLG HHS*RSASRPRTWRSLRRFAAS SWAPRRCWCWA*SAT*PSSTT TISAHSPWCLSACSRSRSMGTTCL*RSPPCRRSRAAAA WCGSSPS STFTPSSSLFLHGAQPLHRAHH RAPTYTIKHSRRRRRKRRASCR PYIAQCPGQPHLRQVPPRERAR PIAIILLLRKGPLGGAFAAGELI RPDCRWTVGPGLQRPPPPTPLIYL
8079	38447	A	8134	1	2994	MQRPCLCVEPMRLCFDSFLLVNQEEEEGVVPCLEENGRAAADPGPQDQDCLLPTLTPSLGDEAPDRTQSSGDPRERCGYLSVTC EEGDNRFAAFCLCGSWRLNHGHADWCDQRSSQISNRLPASLGIIVGTRGRHLAALRGVKEDRQTKGCVQTPASLSPWLPGLSSETRAQKTCVLLIDYATFLKLANDDDGCCLDCLQPGVRTAWASSQHGIAPRKSVQGSASSPSLRTWALTCTQNWFCCVLLVK
8080	38448	A	8135	215	418	

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8081	38449	A	8136	767	1458	WREHLTKFNVWGKQHLESLNS QQKNMRCPVRSQTRPPTDVKP VSRSGRREDDRAAGGEGGADR QPGTATARAPGSPQRGG*GR NLR\QAGPPGKHGRGIPPPQTRG RSRGAPPGTPEGPRHPPRASPRA PGPATGAPKRPQPQTQRQGHIA RDSRPSSDPVPLRETGAPPPWD A\SQGQAARPRATQTSSAPVA TRQGSRRADSRRRGVTRRTER CAQPSLAVSRVPTR
8082	38450	A	8137	3	424	
8083	38451	A	8138	1	813	MVQKELEEEGRKSTPQSWGRE NMEKALNSSLKASLGSGGVMI CASVKALLTVVIAKVLGRL\ES LFLLLQTQTAL*QTL/RHTNRNI SHQYQDEIILDGSDLPRMSPRR KYEPPVFPGRKTYKISIRGKAN KKCEEARQEKEAMVMKYVRG EKESLDLRKEKETLEKKLRDAN KELEKNTNKKQLSQEKGRHQ LYETKEGETTRLIREIDKLKEDI NSHVIKVKAQNKLKAEMDS HKSFKNPLVRCNFAATFGYYK KLIPEIKTGSSH
8084	38452	A	8139	3	808	NVRVEPTDSSFMEAIEFAQKGA FDAYVAVGGGSTMDTCKA\AN LYASSPHSDFLDYVSAPIGKGK PVSVPLKPLIAVPTTSGTGSETT GVAIFDYEHLKVKIGITSRAIKP TLGLIDPLHTLHMPARVVANSG FDVLCHALESYTTLPYHLRSPC PSNPITPAYQG\RNPISDIWGYS TRWGFVG*VS*RRAVQEIPMDL *KARSHMHLASAFAGIGFGNA GVHLCHGMSPISGLVKMYKA KDYNVDHPLVPHGLSVLTSP AVFTFT

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8085	38453	A	8140	2	1154	IDPLHTLHMPARVVVANSQFDVL CHALESYTTLPYHLRSPCPSNPI TRPAYQGSNPISDIWAIHALRIV AKYLKRAVNSTDK*RRRMSLR APSWEWPSPSRGPARCLPRRFY IT*GS*QRYLLWPLLETVDKEY VSLQFSFRRGQGVV*ITCLIFLPTE *HFFFFHHIFP*GSSLFCRNCQC* CVIVRYLYHSQGWQKSR*S*RQ GLIWHLGKCFLLGIGFGKCWVF ICGHGNV/SYPISGFRWKDVIKG KGIVNVGIHPTGWPPWAESVVP HVPCRCFTFHGPRCFPERTPWR WQEILGADTRTAQ/RSQDAGLV LADTLRKFLFRSG/IVDDGLAA VGYSKADIPALVKGTLLP/QER VTSFAPRPQSEEDLAALFEASN ETVLSNVHNL
8086	38454	A	8141	2	990	WENWISIC*RMKL/DPYFSPYTK IKSKWIKDINVKPQTMKLLQEN IRETLQDIGLGEDFSQAQATKA KVDKLDHVFKKNFCTAKETIN KVKRKPKEWEKILIFADYPSDK GLITRILFIDHSWVFLGEGNLAG SSDNSSGGKAWKHLLPLLASRC GTHSNLRAKRLSQGTVATWP VLKREGEKSCGPSESPDLGAPQ ARDVTPCLGICSSWLLQASGH HIPWCQLWKLFWVYLVQLQPH REVALVPAPGAHPTTASVPVC AQWLDPMVIHSHTLCSEPDSP LAGMGFRPVAQAKHNPARPSG WNESSRPEQNLDKGATSHRGF WLAR
8087	38455	A	8142	1	196	GQYPWPLETNPRFLRE*TLPKS LQKSLL*DSPVPE*SLCGTCQQA RSLSEEVDESSISQQVCCPT
8088	38456	A	8143	3	413	ITLGKDCIMHGML/KLGNPFL TQWQRYYFTLFPKNI*WRRRGE S\QRQNLLTMEQILSVEETQIKDK KCILFRIKGGKQFVLQCESDPEF VQWKKELNETFKEAQRLLRA PKFLNKPRSGTVELPKPSLCHR NSNGL

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8089	38457	A	8144	705	1983	EIKVDSSLKSFLLDLMNGKQNL ENLNALKDFAMMLNLSYATEII LGLEHMHNRFVYRDLKVRTI DRLILHSRYCVNGPLEDKVTEK DFPGNPEIKPS\GKWLGCPS*KS PTLSQRGLMTLPCQTLGSG*LSF PE/VLDLP*WTNAHFADWFSLG CMLFKLLRG*VEMHPSSAVLM AAGAWMKTTVVRGFKTVFLSV W*LSCFIPSKRDVSKRLGCHGG G*AIVPAFRYLYQKSKIVLNFQ YPPPLIPPRGEVNAADAFDIGSF DEEDTKGIKVHM\CHLFLYFYF WM/VMISVGKQEVTETVYEAV NADTDKIEARKRAKNQLGHE EGKIAHVSQNISSNAVNQFQNFLY LTQWQRRYFYLFPNRLEWRGE GESRVSLRQPHRACFPVRTMAY GYWLLRRAPKFLNKPRSGTVE LPKPSLCHRNSNGL
8090	38458	B	8145	156	281	
8091	38459	A	8146	2	181	VWCCSRTATLRTRNCARRCS RGSRWKRSGRSSSSRRAH/SQ YDLERLRAAQKQLEREQE
8092	38460	A	8147	3	670	ETGLKNEGRVLVRHSAWCPLL WGREGSRSSLSSWPELQGSPLC ASQGVVLQQDSYIEDQKLVSE RALTRSLSRPSSLIEQEKEQRSLE KQRQDLANLQKQQAQYLEEKR RREREWEDRERERL\DRPSWP SARRRCRGSRTWKRSGRSSSR RRAH/SQYDLERLRAAQKQLER EQ\EQLRREAERLSQRQTERDL CQVMGLPAESNLMMILIKTPCV LSKVRK
8093	38461	B	8148	47	699	
8094	38462	A	8149	1	242	MNRGGFAVKILALLDALSTVCS QRVQKAKKQQHLQNKEHFKA LLKQKEKLKQQQEDL/RKKLF*IQ GIRCPQATPHHGQCSL

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8095	38463	A	8150	3	929	ASSCVVRAVPPG/SGVWGFRCG LCGPDCESGLLISGSRMFAGPQ G/PPGAGTAVTLLAAGEEGLES STAQHGSGLCSEPP\VRRAHAW WQGKSYSRNWLPPARPRPALAM MSSDTRGQAQLSPSWQLEKKGL LSSSTAQRGCRALQGRAASARR \\QRGKANPTAGTGWLRLAPGLP LLCPQTGRRHSCHPPG/K/PGKE EGLEQFYSSARLQGFAGKSRQV PDVTRGKANPTAGTGWLRLAPGLP GPRGGEACAMAVRGPRSHEQR CPWSAGADSVS*GHCEGTDGR VASGACLQVDSRGSAGQNLPL DPEHWHVFCFDFP
8096	38464	A	8151	2	1749	WVQGASLCVRASRAPLPLARP* VQGAELTHPWGPAAHP*TRNQ KPALGSSGPSPH\GNPQTPTQAGQ P*PHTARHGPVQEHRGQR GPHLHKTETPQEATP*EVGSIATE QAWLPHLCL*RPPPFFHQGLFP RGPCMEGAQQRVEGSSAQGT QVCMGPKTAGDWDPWLVCF FH*GEAAARILRPGLGGLSGHP LWPQGGGQMTVGYGGASEAC GAGELLMRRAPPQSPGKARGL PA/HYWHQGQTGPRKAEI
8097	38465	A	8152	1	583	MAAVVAATALKGRGARNARV LRGKERDPGEGRTAEDPFSFTS SPTIAGGIL\AGATA\NKASHNR TRALQN/HTASPEGKEEP*/DPLS PELENTFPRKEGQRTPMESCGN LPWA\GFWLFLPLSSFTQAG KWDK/VTVLKAD*RLRAEHCG FSNTGRV*RARRFRAFLPEVAPF PLMFGSGVSGGADLRSVCDPP
8098	38466	A	8153	141	341	GTRGSPSKKGERVRRDAQQTA TW*TRSPASGCFQICEGNKQDE ACDVRGLQHcerhslagprey
8099	38467	A	8154	1	521	MKNRSRNKGONVEWQAEGIRSK RSVGKQRPSKAKIPSGDKNGVS LTHNEVINNDNPLESNDEKEGQ EATCSRQIVP/EFQQ**LFRPE* WRRASGNLQLIPKKRVSA*GTR GSPSKKGERVRRDAQQTATW* TRSPASGCFQICEGNKQDEACD VRGLQHcerhslagpreymp

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8100	38468	A	8155	1	619	PEAELHNHGIQINSCSVELVDIK KEKPFNSNSKVECQAAQARTHHN QASDIIVISSEDSEGSTDVDEPLE VFISAPRSEPVINRATPCELKC* KEG\QEAIC/SRPRDVPRALGFR KF\SPFEESFRKGLLGQDPDFPD SIEKKPPAEASSG\ALRSKHGEK APMTSRSTSTWRIPSRKRFSSS DFSDLSNGKELQETCSSLRRSGKE
8101	38469	A	8156	362	1043	PTTPPSAGSSWTTASPPS*GKA WLGTGRPPSPWRRMSASMRT\S EEDGRLQPQLPL*AHPSESSGQ DRGNQVSVGREADCGQD/SPVS TMTRSHPGRPCAEGC**PCCSSR P*PCPCGSGSLVTSPSLPAPSF WLPLRPS\SPPGPLPLQSSLFPP PPPPVPQPPAPPALQWGLHLPG VPQPGVPAGRRVVRLSAKHLPR LPDHSV*GAPGRRSLREHLPQH RPGDQ
8102	38470	B	8157	52	633	
8103	38471	A	8158	15	3054	AGPDGLAAPASCQGARGQTRV PGAFSWLAPGSHHASEGLAPG VPPAGGVSAQELTAPPQEGWG LGAPPAAPRPESDEKRAGSDAV RSFSRGARDSLGQRRLLGGTRGA GPAGKGAQRTMGPASGFHSFPP RPHQEPRSSCWQHLLWHCP WPQPSRLPRLTPAQLLQGPGLV AAPPGP*HVPGLAQSPWPLPS GPRSP*DPLHQGALVPLPQGGS PHTAPHCLPSVLSPAIIQQPLLPT AST/SSRSPPASTMAP
8104	38472	B	8159	748	3111	
8105	38473	A	8160	1	463	GGGGGRGQRGRPSRPRYLCGP GPTG/GPGACAAGGVTVGPSED NGRPLLPPQRHPPVGDFSRRC RFLPKHKERSPDARFKEPGGG AA/GPGARGQ*DSARTPDS\ALK LVRPPLIPTGRPSCASGGR*PA GKRGHLSAPPRPGRSSPGSQP

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8106	38474	A	8161	1	2733	MALRRAGAGRTGCFIAIDTML DMAENEGVVDIFNCVRE/LRAQ /RVNLV/QTEEQYVFVHDAILEA CLC/GNTAIPV/CKLQLNFQNTK CTAMSNTLTQGLLQHWS*T T*FIWLAGTMRLCLSLCVDAAS APWVLKTLNIVT/PRVRPEDCSI ARPNDKNRNSMDVLPLDRCLP FLISVDGESSNYINAALMDSHK QPAAFVVTQHPLPNTVADFWR LVFDYNCSSVVMLNEMDTAQR GQSFVGPLEFGGAQL
8107	38475	A	8162	1	307	
8108	38476	A	8163	3	969	GLFCSRKTPPSK*\KHNVIASDK AAEKSVVHEHEHSHDHTQLHA YIGVSLVGFVFMLLVHQIGNS HVHSTDDPEAARSSNSKITTL GLVVHAAVFYVSLFPNIADGV ALGAAAATSQTSVQLIVFAIM LHKAPAAFGFLVSFLMHAGLER NRIRKHLLVFALAAPVMSMVT YLGLSKSSKEALSEVNATGVA MLFSACTFLYYATVHLPEERL KLVTVLGAGLLCGTALAVIVPE GVHALYEDILEVVPSPYYCHLY VYEYLMFSSHFCSPDPWQDQL LTLRVCSTSASLGEGCLGVSSI RKGMELSVQAQHHVEVAKA
8109	38477	A	8164	164	240	
8110	38478	A	8165	2	417	QQIRKLKVGLIHKPVIVHSQV GCQKSTFS/RTRKGRHMG TG*R KSTANFQMPEKVTWMRRMRIL HWLFGRYHESKKTDHHMYHSL YLKVQGNMFTNKQILMEHNHK LKADKAHKFLADQEARSSK TNKASKLREER
8111	38479	A	8166	1	86	RTRGCLSHNNHH*HLHRHHLH HHYPYSY*HHHCLNYH/APYLF HWLYH/APHHLNQHAHYLHLY YHHHYNHHHHLHHHHRSHCH HHHHHLTIHLLCQHHHHHFHPT KHLLLAHPQALQTHH\NHDM/ HHHYPYSY

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8112	38480	A	8167	50	1156	LLLQFSRATFILFQPPANTFTSA FSQTRARRGGSGRGQQESAAE TSEFGDRHAPEAAAATRSAR APEPKHASSCGTRGQCACARRE VEAQVRAKGDTVAERARRGGR WLTRSGMEHLERCEWLLRGTL VRAAVRYLPWALVASMLAGS LLKELSPLPESYLSNKRVNV YFVKVAWAWTFCLLPLFIALTN YH/HDRQGWLGPAAD*/CTLLV GTAIWYICTSIFSNIEHYTGSCY QSPALEGVRKEHQSKQQCHQE GGFWHGFDISGHSFLLTFCALH DCKKRCLCLQ*R*KTDRSHCLH TAITTLVVALGILTIFWVLMFLC TAVYFHNLSQLKVFGTLFGLLS WYGTYGFWYPKAFAFSPTSSPEL
8113	38481	A	8168	2	926	
8114	38482	A	8169	2	1053	TRERFSVANRVTGSETVPKAEA GPESAAGGQEEEEDEEELSG TKVSAPYYSFWGTLLEYHNAMV AGTEEARDGSAGVRVLYLYPT HKSLKPRPVSVLEGKCRFKENCR FSHGQVVSLDELRFQDPDLSS LQAGSACLAHKHQGWPLERQHA SPMWWDNGYLHSQV*AAA\RE AVVGGGRHPAPTAHKRPQESD SDS\EVRVTPAMPWWQMLW TLGPAALPLLGWEVHTRGIGSR LLTKMGYEFKGKGLGRHAEGRV EPIHAVVLPRGKSLDQCVELQ KQTRVGKAGTNKPPRCRGRGA RPGGRPAPRNVDFLNEKLQGQ APGALEAGAAPAGRRSKDMYH CQQECQAGP
8115	38483	C	8170	166	419	

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8116	38484	A	8171	55	1157	ALDEPHGAGASEERAGDVFGPP RRVPGPSLWPLEAWPTSSQKV MPQVRCLHLHQVWGQRGGPPR \KRWAAARGHTGLGPTPHGP S\WTHSNFLKEKIF*KMFA\KQV GPEAKQSLPNGFPGVATAWSP VRSSVCPLFIKARPSC*QLQDSC WDPGGTETADPGHTGLELRFPE PPKPTLPLALSEAPVPQREEKTQ GRGHYPAPQCLPGDPCSPHHPA PQPHQPHPAR/HN*PPPPRPSSHP PTTVPPTRPQPWQPGCCAQPPR PCLH*RGGN*VY*GMQLHQKS VSWPHSQWPQKREGNGSSHEI HPSCPPSGFHGPSPEGRMPTQA GALHSWVPGLSLSHGSGPHPPP RWTATVQAARPRVPPLTNL
8117	38485	A	8172	1	362	LFNDNTVYCPRTERLLKNDTKH QRHAQSACQLSTTLVCSQHRK VSDFIFQHKHSAPLPQSKRKQ NQQSFMLKTLNKLGIDEM\YRA IYDKPTANIIILNGQKLEAFPLKT GTRQGFSLSPLL
8118	38486	A	8173	1	655	MIISTDAEKAFDKIQQPFMLKTL DKQGIDGTYLKIIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPF SQLLFNLMLEVLTAVREEKEI K\GIKYLGQLTRDVKDLFKRN* KPLLNEIKEDTKWKNIPCSWI GRTNTVKMAILPKFR*WTR*RQ FSTVHKD*KLSETVSHSYLKIKF WKLKRPFLLHSEPLKERQQDSV SLMNWVCMSSKTGQY

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8119	38487	A	8174	2	1936	DKPTANIILNQQLQAFPLKTR TRQGCPLSPLLFNIVLEVLRAR RQEKEIKGIQLGKEEVKLSLFA DDMIVYLENPIVSAQNL\KLIS NVS\KV*GYKINVQKSQAFLYT TNRQTESQIMSELPFTIASKRICK YLGQLTRDVKDLFKENYKPLL N\EIKAEDTNWKWNIPCSWIGRIN IVKMAIL\PKVIYRFNAPIKLPMT TFFTELEK\TTLKFIWNQKRARI AKSILRQKNKAGGITLPDFKLY YKATVTKTA\WYWYQRNDIQ WRNTERPEIMPHIYTIL\F\DKPE KNKHGGKASL\FIKW\CW\ENW LA\CRKLKLDPFLPYTKINSR WIKDLNVRPKTIKTLEENLGITI EDIGVGKDFMSKTPKAMATKA KIDKWDLILKSFCTAKETTIRV NRQPTTWEKIFATYSSDKGLISR IYNELKQIYKKKTNNPPIKKWAK DMNRHFSKEDIYAACKHMKKC SSSLAIREMQIKTTMRYHLTPV RMAIJKSGNNRCWRGCGEIGT LLHCWWDCKLVQPLWKSVWR FLRDLEIIPFDPAIPLLGIYPND YKSCCYKDTCTRMFIAALFTIA KTWNQPKCPTMIDWIKKMWHI YTMEYYAAIKNDEFMSFVGTV MKLETIILSKLSQEQQKTKHRIFS LIGGN
8120	38488	A	8175	2	1105	LPTKKSPGPDGITAEFYQRYKE ELVPVLLKLFQSIEKEGILPNSF YEASIILIPKPGDRDTKKENFRPI SLMNIDAKIP**KY*QN*IPA QKSLSHHD\KVGFBPPGMQDW FNIHKSI\LIQHINRAKDKNHM IISIDA KAFDKIQQPFMLKTLN KLGIGGTYFKIIRAIYDKPTANII LNGQKLEAIPFEMLKVMYRAF RQNQKQIKGILEKEEVKLSFAD DMIVYLENPIVSAQNLKLISNF SKVSGYKINVQKSQAFLYTNNNT QTESQIMSELPFTIASKRKYL GQLTRDVKDLFKNYKPLLKE IKQDTNKWNIPCS*VGRINIVK MAILPK*DVLASPSPFTMTVTC RKQVQL
8121	38489	B	8176	120	2036	
8122	38490	A	8177	3	316	

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8123	38491	A	8178	1	1447	MSIRVTQKSYKVSTSGPWFFSS CSYLSGPSAHISSLSFSRAGSSSF QGGLGRGYGGASGMEVITAVM VNQSLLSPINLEVDLNIQAMHT *EKEQIKTLNKFASFIDKVQFLE QQNKMLENKWSLLQQQKMAQ SNLDNMFESYINNLRWQLETLG RKKLKLEALGNMQGLVEDFK NKYEDEINKYTEMENEFVLIK DVDEAYMNKVELEYRLEGPTD EINFLRKYEQEIRELQSQILDM SVVLSDMDNSHSLMDSIIAEVK VQYEEIANRSWAEAERMYQN* YEELQMLAGEHGDDLLSTKTEI STINQNISWLQAEIEGLKGQRA/ SLESTITDVEQRGELVIKDANA KLSQLEAALQRAKQDMALQLH EQQELMFNFKLAQDIVITTYRKL LESEGWSLQESGMQSMSIHMK TSGYAGSLSSAYGGLTSPSLSYS LGSSFGSGAGSSFSHTSSTRAA VVKKIEAQNGKLVSKSSDVLPK
8124	38492	A	8179	272	1813	KCGLRSRSSFSAPSRSIAWFGPP ASTPASTMSIRVTQKSYKVSTS GPRAFSSRSYTSGPGSRISSSSF RVGSSNFRRGGLGGGGYGGASGM GGITAVTNQS\LLSPLVLEVDP NIQAVRTQEKEQIKTLNNKFAS FIDKVRFLQQNKMLETKWSLL QQQKTARSNMDNMFESYINNL RRQLETLGQEKLKLEALGNM QGLVEDFKNKYEDEINKRTEM ENEFVLIKKDVEAYMNKVEL ESRLEGLTDEINFLRQLYEEEIR ELQSQISDTSVVLSMDNSRSLD MDSIIAEVKAQYEDIANRSRAE AESMYQIKYEELQSLAGKHGD DLRRTKTEISEMNRNISRLQAEI EGLKGQRASLEAAIADAEQRGE LAIKDANAKLSELEAAALQRAK QDMARQLREYQELMNVKLAL DIEIATYRKLLGEESRLESQM NMSIHTKTGGYAGGLSSAYG GLTSPGLS\YSLGSSFGSGAGSS SFRTSSRAVVVKIETRDGK LVSESSDVLPK

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8125	38493	A	8180	1	3519	MHKELPALAACGLVADFDVG EEETADFGPLVLDSDSDSVDR DIEEAIQEYLKVGSQSKDQGSASP VSMSRADSFEQSIRAEIEQFLNE KRQHETQKCDGSVEKKPDTHE NSAKSLSKSHQEPAVKVVHRQ GLMGVQKEFAFCRPP\RLAKTN VQPRSLRSKVTTTTTQEKEGST KPATP/TRPSEA VQNKGSIKRSA STARRGKRVTSAVQAPEASDSS SDDGIEEAIQLYQVQKTHKEAD GDPQQRVQLQEER
8126	38494	A	8181	208	445	AACVWRERHHRAEECGCPGVH LPPLLHP*KSKWPGRC/RLRGN AAHHPPWGQQATPALCGGLQ QPESSEQ*GLSSLGGSR
8127	38495	A	8182	1	1607	MDMFRSGIIRRGGLGDGIVRA RRRRQGALAGSSQPIQAAAVPR GP\GPAPRDPRSWPSCQGSSGEA *PYWKLEGAGLE/RKRGTEIRA VGEQLESWRSWRKDVGSSP TPIPEFGAAAPTKS/GPAGPSSTQ QSSRIWAAPRKRLAG*DTHAK NHP/SAAP*PAPQDRARPK*PPR ADPQRSVTPPRSPKG*GSPFFP KQ/PRIPKSGAASEASNPILLAITS QVVGGESETRVEGLMKEESV REGNAAFSFLRKSV/ACKPPAS EKDRGSRAAEGDEHASSNLQEP IPHLP*TALGERPEARQPIRFRP PGEPCSHPRSVDLGTGEPHTF QLGCLQRHPGAVDQAGPRGPG AGSRARETGKTGTNSEAAVRQ EPKQRILSKIHTSSTPGHRL/EPT AFRTRSARSPELASGHQAGKVV AGPRVRARGA\PPTGRPGLAAR PTEAERASRAPCP\PPQTDARLF TARPRGKSGCRLPAHSPPDPPSR LPGPRSRSR/LSPA VRVVAAGEK EASGAETA FPA WGTMALFWSL QPRALQAL

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8128	38496	A	8183	3	683	ERGITAGPPGVHPPTARSAGAA LPVWDSSACVEGVRPAPAMDP *EHQLRSGILGCQDTLMLIESGP QVSLVLSKGCTEAKDQEPRVTE HRMGPGLSLISYTFVCRQEDFC NNLVNSLPLWAPQPPADPGSLR CPVCLSMEGCLEGTTEEICPKG TTHCYDGLLRLRGGGIFSNLRV QGCMQPVCNLLNGTQEIGPV GMTENCRKDFLTCHRGTIM THGNLAACI
8129	38497	B	8184	230	252	
8130	38498	A	8185	29	316	GRVSRC LPFKL VTPVLCFCLWH RSY* EYRN F* MNQISK TQLKQR PTRFTG** QPWPRWW/PAPP RPS QGRLA GREW STQA HPRD S QGP RLCG EGRGA
8131	38499	A	8186	1	57	SRPVQAGPKATGTPQPPPS*PEP VERPLSMASSGTHAQGQSPPSW PQLTGAVAQDSPSPGLPPRDT APAPSMPTADGVQRCARQSGN TGPRVAT*PVAPTSFPAGPDSGE MG/ESCR RRP GT*PTPFQSRLFR RRPSASRIYGLGPCVISL/HKK QKSLPPLAPP GTITVDILFTWAS SLFSLNATEGHTVRHV*CSRRN YQKANAPRTPTASPNTRSHSLG NAKTPPQTVPHRDHPTQEHTG DTSSCAVLSANTRERA AVEC GVTVLNLD*LK*TAR SYSMSSA STGVAGSVQGKR/LRTSALSSG G*GPKATGTPQPPPS
8132	38500	A	8187	1	3564	
8133	38501	A	8188	154	256	
8134	38502	B	8189	1	1206	
8135	38503	B	8190	1	1311	

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8136	38504	A	8191	2	2491	EAGEWEEGAPSQNLVHQGEKL PPDFMPKLVKNLLGEMPLWVC QSCRKSMEEDERQTGREHAVAI SLSHTSCKSQSCGDDSHSSSSS SSSSSSSSSSCPGNFGDWDPSSF LAEHKRLGLWNSPHSIGAMPGS SLGPSPPTIPGEAFPVSEHHQHSD LTAPPNSPTGHHPQPA/LSNP/AL TPAPLAP/APPHPLLPTPAAPFP AQASECPVAAATAPHTPGPCQS SHLPSTSMLLKMPPPFSGCSHP CSGHCGGHCSGPPLPPPSSQPLP STHRDPGCKGHKFAHSGLACQ LPQPCEANEGLGEEEDSSSERSS CTSSSTHQRDGKFCDCCYCEFF GHNAPPAAPTSRNYTEIREKLR SRLTRRKEELPMKGTLGGIPG EPAVDHRDVDELLEFINSTEPK VPNSARAARKRARHKLKKKEKE KAQLAAEALKQANRVSGSREP RPARERLLEWPDRDRLRVNSFL SSRLQEIKNTVKDSIRASFVCE LSMDSNGFSKEGAAEPEPQSLA PSKLSGSSEQQPDINLDLSPRTL GSPQNHTLQAPGEPAPPWAEM RGPHPPWTEVRGPSPVFVPENG LVRR/HEHRAQPIPGLGQDTQ AG\HPSSEEASSKEVPSCKQELP EPVSSGGKPQKGKRQGSQAKK SEASPAAPR/TSQPRGSQCQGPG RWP/TSSQAGS*SLPK*AAVLKL ERGAGGAGQDQVGLAVPKLRR
8137	38505	A	8192	277	434	
8138	38506	A	8193	4	168	
8139	38507	A	8194	26	219	PRLQCIQPRLTLPPGFK*FLCP SLPSSWDHRQTPT*LANF*KNY F**IWGFTMLGMGSGTCNP
8140	38508	A	8195	1	498	
8141	38509	C	8196	105	251	

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8142	38510	A	8197	1	1620	MWGVGKITDPKDVTLLIPGTC GCVTLHGERHFVDVIKAGPTRS VQGNPKLGSKKMVESIMKTQE SIKLTVKATTQRRNRNESNGPT TEFHQSTMNTNTHSDTWMVVLD PMKPGGPFEVMAQQTLEKINFT LRVHDVLFGDVWLCSGQSNM QMTVLQTLSCGVVTVIFIMTLA GAHGSTLSSGIFSIVYQSDSLKCK SGRKAPVGPRVLRTGYTWSQE NSTGNPDLFVQDHTWQFCTKH SGSYVASMETVDETAFILESTHT SFRTDWELKCFITVRQLGRQY ERTCYLSFRPVANTVEYCIGFRF ASYINNDMVLQKEPAGAVIWG FGTPGATVTVTLRQGQETIMKK VTSVKGLISLLVCLSQFEIVPED DPQNAIVSSSADACHAELLRTIS TTMGKLMPNLLPAGADFFGFS HPAIHNLIQSCPGARKCINLPAS RPVGLSIGPLSPLDSYQWVKFD VCKPGDGQLPEGLPENDAAMS FEAFQRQIFDEDQNDPLL*SSL* PWLVHMVPL/WSSGIFS/TISK*L FEV*VGSEGSSGSPCAEDRLHM VSRKFHRKSRPVCSSYLAVLH *ALRILCCFHGNSG*NCFHSLHP H*/HSALTGNSSASSQ*DASLGG SMREHATCLLDPLLLT*STVLV FALLHTSIMWCCRSSLGQ*Y GASVHLEPQ*P*PCAOKVRKPS*R K*PV/CKGLISLLVCLSQFEIVPE
8143	38511	A	8198	1	900	
8144	38512	A	8199	915	986	IITDRPGFHDESAYPVGYCSTRI YASMKCPDQKCLYTQCIKDGG VQPQFEIVPEDDP\RNAIVSFW QMLVMQN\SQDYKALLWGKL MPNLLPAGADFFGFSHPAIHNLI QSCPGARKCINYQWVKFDVCQ TLEMGQLPEGLPENDAARALK PFQRQIL**RIDKRNLKIKQL KVFPGKTITRTFHDEIPLVSSL SELLPSFIYPKILV
8145	38513	A	8200	3	414	
8146	38514	A	8201	1	2445	
8147	38515	A	8202	1	248	ENGNLGPIQAEVKGATGECNIS ERKSPGVEIKSLRELDGLEVH KIAEGFSESKRKSSEDENENKIE FRK/KGGF*GGGFLRRK
8148	38516	C	8203	70	324	
8149	38517	A	8204	1	675	

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8150	38518	A	8205	692	808	
8151	38519	A	8206	1	1954	PGTGEETVRLGFPVDPRKVLIV AGHHNWIWAAYAHFAWWYRI KESS*WQQVFTSPYLDWTIERV ALNAKVVGGPHGDKDKMVAV ASESSIILWSVQDGGSSEJGVF SLGVPVDALFFIGNQLVATSHT GKVGVWNAVTQHWQVQDVV PITSYDTAGSFLLGCNNNSIYY IDMQKFPLRMKDNDLLVTELY HDPSNDAITALSVYLTPKTSVS GNWIEIAYGTSSTGPVRVIVQHP ETVGSGPQLFQTFTVHRSPVTKI MLSEKHLV SVCADNNHVRTWT VTRFRGMISTQPGISTPLASFKI LSLEETESHGSYSSGNDIGPFGE RDDQQVFIQKVVPITNKL FVRL SSTGKRICEIQAVDCTTISSFTVR ECEGSSRMGSRPRRYLFTGHTN GSIQM WGS GPLL WDMVN KSE DKDVSGPT\EEELLKLLDQCDL STSRCATPNISPATSVVQHSHLR ESNSSLQLQHHD TTHESATYGS MRPYRESPLALARARTRTESFSY RDFQTINLN RNVERA VPENG NL GPIQAEVKGAT GECNISERKSP GVEIKSLRELD SGLEVHKIAEGF SESKKRSSEDENENKIEFRKKG GFEGGGFLGRKKV PYLASSP ST SDGGTDSPGTASP SPTKTT PSP RHKKSDS\SGQE YSL
8152	38520	A	8207	2	383	
8153	38521	A	8208	13	332	SKGFIVLLKCLQILKTPSLGP G N QGLNAGKESRG GGLSVKA*RA RPDSWRPGPP L SISITL RRL KEG RRHHRALPLCCI ITLASSPNCI AP/ TSVP*IPRLHPFWL
8154	38522	A	8209	1	1839	
8155	38523	A	8210	1	364	
8156	38524	A	8211	3	3723	MIPAGGRAPGPPYSPVPAE ESL VNGNHTPQTATR GPSACASHSS LVSSIEKDLQEIMDSL VLEEPGA AGKKPAATSP LSPMANGGRYL LSPPTSPGAM SVGSSYENT SPAF SPLSSP ASSGSCASHSPSGQEPG PSVPPLVPARSSYHLA LQPPQS RPSGARS ESR LSRKG GHERPPS PGLRGLLTDSPCTT VLA EA\RR ATNETPRLGGQLPVVAISLSEYP ASGALSQPT SIPGSPK FQPPVPA PRNK I

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8157	38525	C	8212	398	415	
8158	38526	A	8213	3	45	
8159	38527	A	8214	1	929	IAAAPELLERSGSPGGGGAE EAGGGPGGSPPDGARPGPSREL AVVARPRAAPTPGPSAAAMAR PLVPSSQKALLLELKGLQEEP V EGFRVTLVDEGDLYNWEVAIF GPPNTYYEGGYFKARLKFPIDY PYSPPAFRFL\TKMWHPNIYETG YVCISILHPPV/DTDPQSGLPSE RWNPT\QNVRDHSS*V*SSLLE RRPNTFLRPANVGRLPWMLQG SWEREQGGRIRELHRTSFRKQV LGTKVDAERDGVKVPTTLP\EY CVKDQGRRAPDEGSDLFYDDY YE\DARVEEADSCFGDDEDDS
8160	38528	A	8215	80	430	IAQGPFYPPGWPCSGPGGNNTSSP RPPPTGGKGK/PGGPQK/PLAPRI PAVFTRGDSG*RSCPATTPLSA GSPSLPHRIPEPKPPHRIPEHKLH RACAHAPDGSGLRIFTAVH HGKL
8161	38529	A	8216	3	645	FSVSHLLDLEEAGDMVAQAD ENVGEAGRSLIESPGLTSGTAT PQQDNDQLNSEEKKKRKQRNN RTTFNSSLQLA\LERVFERTH*T PSSLFFLSFLMPSCLLTILQVWF QNRRAKFRRNERAMLANKNAS LLKSYSQDVTAVEQPTDLQLCE TNACYSPCSLLCPYSAMATYSA TCA\NNSPAQGINMANSIANLR LKAKEYSLQRNQVPTVN
8162	38530	A	8217	3	907	RVDDFVAVQLGRPIGSCFGRA QLQEGVQKPQAMA VGNINELP ENILLELFTHVPARQLLNCR VCSLWRDLIDLVTWKRKCLR EGFITEDWDQPVANWKIFYFLR SLHRNLLHNPCAEEGFEFWSLD VNNGDEWKVEDLSRDQRKEFP NDQVKKYFVTSYYTCLKSQVV DLKAEGYWEELMDTTRPDIEV KDWFAARPDCGSKYQLCGHLS\ DAAQGPHGTFQPDPATIQQKSD AKWREVSHTFSNYPPGVRYIWF QHGGVDTHYWAGWYGPRVTN SSITIGPPLP*HPLSPHLLNPDW
8163	38531	B	8218	117	398	

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8164	38532	A	8219	1	3063	MSLEVDRSVETMCSGDEILLPD LPKADVADPLWGPFPVQNCLS LARSDSREQGLVLVMESRNRE VVPPGVSYSKDGAKSLKGDP ASEVTSKDSTFSQFSPISSAEEC GDDEKIKVDDPLTRRTCNCQASG SAPQQDYDKLKAFFGENSSKT GLSPSGNMEKNKVVKREAEN SINLSVYEPFKVRKAEDKLKEN SDNVLENRVLDGKLSSEKNDT CLPGTAPS GTKSSKLSSCSSAI MALSAKKAASDSCKEPV
8165	38533	A	8220	1	1188	MPLDEDPSKLCRHNLKCLECNE IFQDKTSLATHFQQAADMSGQ KTCTICQMLLPNQ/CQRIHQHKS P*TCPECRAICR\SHCEVFYKCPI CPMTFKSAPSTHSHTYTQHPSIK IGESKIIYKCSMCNTVFTLQTL YRHFQDQHIEQKRDVYISHVRK EHGKQMKKQPCCQRDKPFSSS HSLCWHNRIKHVKIRKVYTC CSDSRGTFKQLMLEKHVQLT HGIKDPDLKE/TDRRHQ*GGNR NKRRPQGPQSQVEVERTGSGV QASQ\GAITQP KLEINVFKVHK AVCGFTTENLLQFHEHIPQHKS DGSFYQCRCHELFVAHKLKEPQP VSKQNGAGEDNQQENKPSHED ESPNGAMSDRKCKVCAKTFET EAALKTHMQTHGMAFIKS KRM SSDEK

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8166	38534	A	8221	842	2687	KGECLPSALSLNGNGRESLESL ESLSLEGFTRGRAGLRTCSPPCL SLPAPPWAPVLPEPPRGAPPPAP RRPVPSTTQGLRSAGARRGTGR QLHLRPRC/ADPLGEASWAPES GSAPAILKVRIKTIKMSSGEIKR TVTRVLPEVDLDSGKKSSEQTA SVMASVTFLSSPASAAILS/SSP QGASPVHGDQCSFTC/SSSPLN RAPA/GAIKAANAIQQQTVVVP APSRANAKLVPKTVHLANINLL P/HGSATN/ISRQ*SMQQ/RSQPP KKVSRVQVVSSLQSSVVEAFN KVLSSVNPVPVYIPNLSPPTNAG ITLPTRGYKCLECGDSFAVEKS LTQHYDRQSMRIEAADTRGQK TCTICQMLLPNQCSYASHQRIH QHKSLYTCPECGAICRSVHFQT HVTKNCLHYMRRVGFCRVHCN VVYSDVAALQSHIQGSHCEVFY KCPICPMASNQNKEDEIKSMNG KEKLEKKSPSPVKKSvetKKVA SPGWTWCEDRLFIQRDVYISH VRKEQGKQMKHHPCRHLCQH NRIKHKGIRKVVACSHCPDSRR TFTKRLMLEKHVQLMHSLKD DLKE/TDRCHQ*GGNRNKRRH QVPQSQAPLHCTQVKGTSASV QAKWSWGR
8167	38535	C	8222	1	438	
8168	38536	B	8223	98	463	
8169	38537	A	8224	1	2679	
8170	38538	A	8225	1	1209	AADTRGQKTCTICQMILLPNQCS YASHQRIHQHKSLYTCPECGAI CRSVHFQTHVTKNCLHYMRRV GFRCVHCNVVYSDVAALQSHI QGSHCEVFYKCPICPMASNQNKE DTKSMNGKEKLEKKSPSPVK KSvetKKVASPGWTWCEDRL FIQRDVYISHVRKEQGKQMKK QPCCQRDKPFSSSHSLCWHNRI KHKVIRKVTCSHCSDSRGTFT KQLMLEKHVQLTHGIKDPDLK E/TDRRHQ*GGNRNKRRPQGPQ SQVEVERTGSGVQASQ/GAITQ PKLEINVFKVHKCAVCGFTTEN LLQFHEHIPQHKSDGSFYQCRE HLFVAHKLKEPQPVSQKQNGAG EDNQQENKPSHEDESPNGAMS DRKCKVCAKTFETEAALKTHM QTHGMAFIKSKRMSSEK

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8171	38539	A	8226	58	391	FAKNDGFQLHPCPEPL/PWSQT RTQSAAWA*GCNYLQPTGAAD LLAYFEFLGPEGKTGW*QGLDR DATGAPPSPTARQ/RVGKALGT AASLIPSFIPL*SKKMARETAAW SEW
8172	38540	A	8227	993	2235	NGGPHLWRLPTAHRRACGERH GQAVACGGAVAE\ALVGPAPT VGLRRGCPHSAPGGYACPVSSS TYSGLGQRCVFPHY\SPRAVPN LVPALGAPKP*MGPASGL*GD MLPAASVKRAPTAAGPWMLYP YSPARLDSAA/LQALSTKKVAS DSSKEQVANSRESSSLSKEVND SPRAADKSPESQLIDGTTKCTS LKQLDSPRNISSENSIKTPASP AGSTPPIPKVRIKTTKTSSEIKR TVTRVLPEVDLSGKKPSEQTV SVMASVTSLLSSPASAATLSSPA RVPLQSAVVT\KQFPLQSPPLN SQSSLWLLSSQCLL*RQQDPK SLI*SSLTTPR*KPRSYLLPLSRV PAAPSLKLANAIQQQTVMMPA SSLANAKLVPK\MHLANLNLLP QVAPATSELCPVSIKTQPQI
8173	38541	A	8228	1	3370	MINIHTTTTTITIIHITIMSSSPIT ITNIITIIQHHHHHNDQRPSLGK CRGLYIRVRKVPGERATANSRC PINAQGIESCWNGVMALWLGP NSTCSRLPELTSDSECQIYGDTE RKRRHSRKTCRWEYQVETKDT FLEELLFEPALRTGIQSKQGGPL LQLAANNYNLEPKQHFGSWFG TMKQLGETESIFSFAYEVCLTV YEIFGLPGIAPSCKTSFSNFLSCI TAIAALSTKKVASDSSKEQVAN SRESS
8174	38542	B	8229	1	438	
8175	38543	A	8230	38	597	VPCGPHCRLPSAWRTSPPRLWN DTTSRKWKSGVAKSSCYNL*PS AGMRRKRF*LRAPSTLGSALL *NRLMRSSRFCATSSCAS**CEQ RTSLSFEGSLWRSTITSRPPPSA ARISSASAPRRRCASEAACRR STGRAGPGPGGGKQQMKAGR\RG TAQPSSPHPLGIPTHHPDTRG ASRQTGHL
8176	38544	C	8231	1	1062	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8177	38545	A	8232	3	595	WSSAQPRSASRAASRSSRLHSS RRCLRCRAPRRPQLVASAKGR ASSARSRRGRSRSSR*GRGRARS GGGMSPLAQRRLK*ASSSSGRG AAWSRASRGAARGSGPLTGRR SAPLHSSSTVPCSPRYARPGPPR ATA/RGPTRATCLPSHRSTITSRP PPSLPVAVQPALPPGAAPPSP PRAGGALAALGPGLTVGAGR
8178	38546	A	8233	2961	3005	SRLQQTIQADAFACAKGCWP GGM/DELEAETSSSLFLLAMQV WMCGGRMEDIPCSRVGHIYRK YVPYKVPAGVSLAR/SKNLKRV AEVWMDEYAEYIYQRRPEYRH LSAGDVAVQKKLRSSLNCKSF KWFMTKIAWDLPKFYPPVEPP AAAAGEIRNVGTGLCADTKHG ALGSPLRLEGCVRGREAAWN NMQVFTFTWREDIRPGDPQHT KKFCFDAISHTSPVTLYDCHSM KGNQLWKYRKDKTLYHPVSGS CMDCSESDHRIFMNTCPSSLT QQWLFEHTNSTVLEKFNRN*A ALLFDDESQFDSSNCQHSCYPR
8179	38547	A	8234	203	314	VPASSPALGSTLEFQLCEPINSG FCLNQID*GFGYL*ARFMSWPY WSLLSPFPLIPLH
8180	38548	B	8235	1	1008	

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8181	38549	A	8236	2	1495	CLVVTSTD SIRFQIIPWAGTEMK QE/I KLDG DSMEEHLKKPLEDY MALFP SVRIL RTKKREGLIRTR MLGASV ATGDV ITFLDSHCEAN VNWLPP LLDRIAR NKTIV CPM IDVIDH DDFRY ETQAGDAMRG AFDWE MYYK RIPIPPELQKA DP SDPFECQL V RD T L GDAD SQHQ DVSHLARC QADFL FPWSPVMA GGLFAV DRKWF /WE LGG WA FS HGDPQQ PWKESL F PSSCT SPQ VESHWPAG PMPIPEQ YCNWSP AVTCPV TAGRV CLG WGWR *RK *WGT K DLLG ARW KSKPF *SP*T NQDV KPNPHDLIEQ FQRKEHFC TESA WL GCPQ NG SWL LQS QRS HRER WNHG IFMTVISA VSC GLH GVVC GGR MEDIP CSRN LKRVA/ EVWM DEYAEYI YQRR PET/GHL SAGDVA VQKKL RSSLN CKSF K WFMTKIAW DLPKF YPPVEPPA AAWGEQ KDMPLS QYTS KGAG I KSYLG S CT H WGH RGR QKG NILIAHQ
8182	38550	A	8237	1126	1603	TIMK I TGRAG DAIMG ADICH/N KDRK VRR KEPKS QDI YL RLL VK LYRFL A RRTNST FNQV VL KRL F MSRT NR PPLS LSQM IQK\ MKLP GRE NKTA VVV GTIT DDVR VQE VPK LKV CAL RVTS RARS LIL RA GGK ILT FDQ LAL DSPKG *GTVL LSG PRK GR
8183	38551	A	8238	504	737	QLC WAGG KILT F DQL AV DS RK GCITV LLS GPL KGR KV Y GH FGK APGTP HSHT KPYVHS KGR KFE RARG *RAS *GYKN
8184	38552	A	8239	1	360	MLGFA LL PAPP GPGLV /GSG *SP DDQ\ GRTGP ALAPS CLSR P SPAT LNSAGSEIHD RPR SGAPPT PCLR GSAQASTSACSPGANGPEPKPG LGTLR QQLEHIMATN RLDEAG WVACY PT D VR

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8185	38553	A	8240	3	666	MSFRQLFQDLKRYVQDADVR WEYCVRAKRGQTDTSLGRLFQ QGPGVPGRHRAHSATSPDHRFP VADLTGQGV!*GCGPPAAPWG AG*YPGAPLHAGLGLTAAAG AHHGHQPAG*GGAGSPATRLM SVEGCSQRPWTEAPDRPLEHEA VCSVRPRPRCFLGGVGRAGAFL EEEWQHQSVVCVPCQPPWGLGT CSSMSGKLSRPPASSSLLSRGKA WGQEES
8186	38554	A	8241	2	443	RTSLEFFFFFF*DGSTLVQA GVQWRHLG*LQP\RPPGFK*FS YLSLLSSWDYRHLSHLANFV VYVLFCFYETKSRSVTKAGVQ WCDLGSLQAPPPGFTPFFSCFSLL SSWDYRHLPPHLVNF\CIVSRDG VSLCWSGWRSRTPDYK
8187	38555	A	8242	1	354	VSLQPVSQEGVSQRTLGQSSRS SGSG/CPGELNSPIFSGVPHRWD AA*EESRAAGVPWPSCQISGM SKFRI*NW*DVSAGWSEDLRS *VDLSHGAKSRRTG*DSPKG PIRVTA
8188	38556	A	8243	2	241	WSTGLLRRSGS/NQSSAGKPR SQSESPGP\GSRSSGSGCQEST CH*G*RRRG*GVLAPAPGKRDL PPRVKDQVRHPCVV
8189	38557	A	8244	5	282	AKKESVREPWARVPGALVAA R*VEQSDFQCGPAQMGHGLGG IPCG/PFLGLVVRFALVASSC PFPRKAGLAAKGEGPRQASLRG LTPLKRG
8190	38558	A	8245	1	302	LSREGVGQKALGQSSRGSGSVC /LGELNSPISSGVPHRWDTA*EE SWAAGIPWPQQIDFWHL*QA PCPRKSREGVETRREGVGVLAP SPEKRDPLRVKD
8191	38559	A	8246	1	200	LSPKGVSQRALGQSSRGSGSG/C PGELNSPISSGVPHRWDTA*EES WAAGIPWPQQISGTCSKLHS
8192	38560	A	8247	23	187	
8193	38561	C	8248	1	1764	

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8194	38562	A	8249	115	872	LRRGRTYPPP*ELPKARHP*WS TGLLRRSGSISLQPVSQEGVSQR AFGQSSRGSGSG/SPGELNSLISS GVPHRWDMA*EESWAAGIPWP GGQISGTCS/RAPGGGGSGGMP GCCGSGVWKFLCASRKAGKGS GHRDTRSGCGHKGLGRRDMRL GCGNKGSGRDIRGWGTCPPF RKAGLAAKGEGPRQASLRGLT PDLKLVRCPWAGWSEDLRS*V DLSHGAKNRRRTGD*SPKGGPPI LGRPLRACSAAAVHF
8195	38563	A	8250	85	529	SGSISLQPLSREGVSQRALGQSS RGSGSG/CPGELNSPISSGVPHR WDTA*EESWAAGIPWPQQISG TCS/RAPVGGSGGTPGRCGSG VWKFLCAGDVAGVCLTVEAR NCNFFLLLYTLKARLIKSCPCPR KAGLAAKGEGPRQASLQ
8196	38564	A	8251	1	552	MEARETGPWKEGNVERVASVL IKKGTGLPSTVRVTGSSASVMV YGASEAIGQHQSSAAKPRRSQS ESLGPEFQQLWEWLPGPRAVK RLRVIFDEKEPKRYLIWDKEKG ALTLMPLAPATFLRVNCWAG GGGLVTERNCKP*WSTGLPQRS GSISLQPLSREGVSQRALGQSSR GSGSGCQGLGL*SVLIKKGTL PSTVRVTGSSASVMVYGASEAI GQHQSSAAKPRRSQSESLGPEF QGLWEWLPGPRAVKRLRVIFD EKEPKRYLIWDKEKGALTLM PLAPATFLRVNCWAGGGGLVT ERNCKPDQMKMKGIEIKRERLK CGSKIERRKRLRDSEGGWRRVE
8197	38565	A	8252	535	710	KCFPACHHYHNHHHHYHHH HQHHHHYHHHHHHRITHIIITIIF TIITIIINIIINIIITNITIVFMRVR VKRPPNRLCVSNMAVYFTWVQ KKKSSLAFSSVVTSDLKSKKRR LSGKSLETSSASLMVYGASEAT GQRQSSAAKPRRSQSESLGPEF QGLREW*YGDGGDDDDNGDV DGGDDSGGGGGCGSGGKQESI SIFD

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8198	38566	A	8253	54	563	AEKESVREPRARVPGARGVAA RPSA/RPR*GRPLLCSPTPK* NCAWHQQAGCWLTGPAAPA SPPACAAFSWGYGGLPAPIQTA FQAGW\GAPGQRGRSKTTRPGV QSVPNPGEPAPEPRAAASSGLSS GAFPAPATDPGICSWAEGLVM GKHHHRPSISARIPCFHV
8199	38567	B	8254	232	987	
8200	38568	C	8255	1	1812	
8201	38569	A	8256	1	1035	
8202	38570	A	8257	2	664	SLIKLIPPPRFGRNRHLPVIRQN ERTQRGKRRG\TRYMFSRPF*/R KHGVVP\LATYLCEIYKQRCDF VDIQGEWGTCSKKGMP/HHKC YHGKTGRSLTIVTPACLLPLFN TTQFRRKILAK\RINV\RIEHI*AL LRARD*LP*NRVKENDQEkers PKRKGTWGST*SRQP\APP\EA HFLEEPNGEGALSCWEPFPYWI SLGLGVKKKNKDLWATKK
8203	38571	A	8258	1	747	MSESFLKPLPEVDAGAILVQP AELYSKASRLDDCYQKDSYTH RCQEKRCTHTGGHSGKHQSL SGAVSPTCSAKTRDKINCFDFS PKSEVITLSSNDDSVLSDCQEG KPKPCSGPFATFKMQYDRTCE WTALKISNGKLILISTNVSFIR LIGAFKGVIHTFGSYANSEAV TLEASFTADSQFVMIGSEDGKI HVWNEESGKK*LGWMVNTQA QLPVCNSTPSSMTFASACSNMA FWLPTIDD
8204	38572	B	8259	50	260	
8205	38573	A	8260	1	541	EVWGPGLASEGAVGITHGPFPK AKRNPGKVRSKRRDPPIQFQNL RRS*WRSIPRKPGRTGSRRSL WT/ALHPGAGTAKHPPAA/CA GRET*CKSKSPAGRKWSFHRSS SRRASE*DASQFAVPAGVTSRE PFGSRRTGAPTGGTGTPTRTAR SRTWSSSWVRLSGRTGAVGYS RSPSCSS
8206	38574	C	8261	177	236	
8207	38575	A	8262	1	417	

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8208	38576	A	8263	2	475	GIHTRLNSELLKEEESNKRLEAE IE\YQSLRTAAISKHSESVKTER NVKLALE*TQDVSVQVKMSSDI SEVEDKNEFLTEQLSKKQIKFN TLKDKFRKKRDTLRKKSLAET L/QNDLSQTQQQIKEMKEMYEN AEAKVNNSTGKWSCVEERICQ LQHEN
8209	38577	A	8264	3	518	IFRAPFRICLGILLSPPNTEQAQY KKQLEQ/FKQGYNTASLNKTEL TLKDVECKFYKMKTAYEEVTT ELEEYKEAFAAALKANSSMLK KLTKSNKKIAMIS/TQLFMEKEQ VKYFLSTLRARRGRESPCDENL TSIGL/NRKYIPQMPVRIPTS/SPQ TSNNCQNYLTEVSHMTVSL
8210	38578	A	8265	1053	3733	NGRSCCRERSSTKKECTDIESSEF VNRKSLTSGLEEEQQRRERSEK KQPQDFHNHEEVKDLMDENCI LKTIDIAIPRQEICTMKNDNLEKE NKYLKDIKIAGTNAALENCIK LNEEMITKTAFRYQQELNDLKA ENTRLNSELLKEKESKKLEAE IESYQSLRAAAISKHSENVKTER NLKLALERTQDVFEQPAGLEEA ELVLSRLSCGEATEGAARRALA AEEAGRWRRGVG/DSWLAPES RLHVLKTCGSCWWENLELGRH H*LCLWAVKNFQKRFLPGQKK SPFQLMSPQREFQHTL*ITQKQN RVMNNFIKKYLRLMSSV*CMP LT/IKHSIDKEVRSTSARLPCLGS EERICPAALSGKYKKLLEMtin VLSVFGNEDFDCHGDLTDQL KMNLILKKHKFDDLTAEKEA VSSKCVDLAKDNQVLQQELLS MKKVQQQCEKLEDKKMLEE EILNLKTHMEDNMVELSKLQE YKSELDERAMTAVEKLEEHLQ LNKGNTASLNKKELTLDVEC KFSKMKTTYEVTTLKLEEYKE AFAVALKANNMSKK\LTMSN KKIAMISTKLLMEKEWVKYFLS TLPTRRGQESPVCENLTSIVLNS KYIPKMTGRIPTSNP*TLNNWQ NYLTEEDMVSGDLISGTWSME EWSLGASSLGTWSAAVGQYLA RWPLCDLSVTVAESPSPCCGA
8211	38579	A	8266	2	209	

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8212	38580	A	8267	1	1431	MTQKAAASVEHLAIRCHWSQR PAVTGDLQVYSGSEGTAIIFCETQRSVTEIAMNPHIKQNAQCLH GDIAQSQREFTLKDREGSFKV LVATNVACGLDIPEVDLVIHG SPPQDVE/SYIHRSGRTG\FVTM TLESLEEIQDVSCAWKELNRKL SSNAVSQITRMCLLKGNVRVCF DVPTTKSERLQAEWHDS DWIFS VPAKLPEIEEYYDRNTSSNSRQ RSGWSSGQSGRSGRSGSRNYF AVDTASAIAIALMTFGTMYPMS VYSGKVLLQTTPPHVIGQLDKL IREVSTLDGVLEVRNEHFWTLG FGSLAGSVHVRIRR DANEQMV LAHVTNRLYTLVSTLTQIFKD DWIRPALLSGPVAANVLNFSDH HVIPMPLLKGTDLNPV TSPA KPSSPPPFSNTPGKVNVPVIL LNTQTRPYGFGLNHGHTPYSS MLNQGLGVPGIGATQGLRTGF TNIPSRYGTNNRIGQPRP
8213	38581	B	8268	128	1497	
8214	38582	A	8269	1	618	
8215	38583	A	8270	1	334	LFHSIFGYLPFARQTLLPGSILVF TYTQPPKIQFANGTKGLPDPLM TPK*QK\APLMPLLVS LGLSAST IALGTRIAGISTS VTFCSLSNDF SASFSPYLHRCFLPWSSL
8216	38584	A	8271	1	2919	
8217	38585	A	8272	1	4192	MRIPVDASTSRRFTPSPSTALSPG KMSEALPLGAPDAGAALAGKL RSGDRSMVEVLADHPGELVRT DSPNFLCSVLP THWR CNKTLPI AFKVVALGDVPDGTLVTVMAG NDENYSAELRNATAAMKNQV ARFNDLRFVGRSGRGKSFTLTI TVFTNPPQVATYHRAIKITVDG PREPRNNECVYGNYPEIPLEEM PDADGVASTPSLN IQEPCSPATS SEAFTPKEGSPYKAPIYIPDDIPI PAEFELRESNMPGA
8218	38586	B	8273	385	3930	
8219	38587	A	8274	830	906	

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8220	38588	A	8275	483	971	ATMPGHFYLF CETGSNSV SQAG VQ*HDFGSLQ PPPPGFKQF SCLS LLSSWDYRH MPPRPANF/SVFL VEMGFYHVGQAGLGLL TSGDP PASASQSV GITGM SHHAGPTM KLLNPQSEV IFSPRNS HSTLLTP LSRHL PHP I SISTWC IHY APLHT VSIAEEAP
8221	38589	A	8276	1	2088	
8222	38590	A	8277	1	1822	MMTKDGLVF GLQR GSPI LYVQ GLSRFRSFSV ASGDSK RTRH RE KPLL EAGER DHNC YGSP QILA FQAI CKIA KPGKE QSCSKLV GH TFDPLL IEARKPEER QKL PDCV KWGG VGNFP PVK RVGD IRIF VS QGGK FSQA PEGPEV TSQGLE SKTLE VYPV FYCTVA ELAL NHN VQPSH STLP FPQAE EPHS VATT GPWG VLPGCC QCSL KA QGLFS QL VMNA ACTGI HTSG QWAPL W PSTVPE MPSK SSGLES GTPRTCF VLYPAVAK LLPR GTLAY SGKG CQNS SANHW DGTQI HSPC HAA AAREYGGKSGIS DRSRLS PTLF SA SF SNMNLK LDFKV FK YGC FEF EATAGANV LIKI RESKY KNTD DIDILSRQATPVIA QLAHEHSGH VAGMEVVFGFSNTDFHL PRQT WLQPLSHASLLA ETNTESKND TTPQGDQPATW RLNSGYGYAF PACN ASAKTI HGLTEV LYTV LV DGNHNLLTKLSLEEENCL IQLK CENLQQKLEQMAA\ E*KSLRRK RATQEELMHSNLKFKEK SAE YTALARQ\ LEAA LE EGRQ KV AE EIEKMSSRESALQIKILDLETEL RKKN\EEQNQLVFKNEQ
8223	38591	A	8278	1	5103	MDESSV HSSVGDRH VDRVSTS QVAERTRCN KMWRIETKSPSG DNEG TGT VIEKKTR LSGQGF CL QLSEG LQNLQA QRRKIK FREME DPSSRPLCSSL DIALCA SVKPSA GFPQRPKV KPLC VL GSGAGTG DAERSLQSSDPLKK QQPLAR SL RGLCERIVLGGGSGCGAR GLRG AGGGTALS PGASRG FEGMFG LDQFEPQV NSRNAGQGERNF N ETGLSMNTHFKAPAFH TGGPPG PVDPAMS ALGE PPILGM
8224	38592	A	8279	1	783	
8225	38593	A	8280	888	4915	

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8226	38594	A	8281	94	757	APTGCLACNLLCELGQVTSPL *ASAPKCVTVHN*PLCKALPRR *SSA WELS*MRKLRLRGVNFLR TDGLCFCISTRATPPSSARARCV STSLKPASLQLAVS\YHHGSRSQ GCHLPAGREVCTSQRGVRETS PWGC\EGKSPYAEGFPAVISLNP PSSSTAHDLPANKASASQPGSH LQCLSVHCTDDVGDAKARASV PTWRSLHSIDSNRGTFVAALT
8227	38595	A	8282	2	374	
8228	38596	A	8283	260	500	
8229	38597	A	8284	98	828	RWASVFPHFPYLYPALLEKKT AERRGGAFSRNKQTAGPCGGT LQEEGSARTVGDSYGEASAGG FSCNKEEGNQRYREG*VTEML\GVGYHRALLQLRGGLDPS/PALS VT*SRTSGPRPSRLNKKTYCIPP RQDCYNNLAACLLQMЕPVNYE RVREYSQKVLERQPDNAKALY RG/SGVAFFHLQDYDQARHYLL GCRE*AALKMPNVRRYPPRLTR VRTQQPTHRKEKQLLPWACLV NKEERCSSS
8230	38598	A	8285	396	602	GNCGPEKERTCLRSPSWTPMPS PKQA VPVSSWPPGPHHQRCVP SRSSNFSKSSKSNSCDGWNSSSSS
8231	38599	A	8286	3	156	SVVSLSPHR*AIQILSGVAAGW GLSDGPSSSSPSGARDTGSPG SSLGL
8232	38600	A	8287	32	515	ARGSWPGAGARPPGTARRAA RCATGCGSRSRSSHAPVSPRRA APSSVHPGGCHGPALPPPSPRR VTQAADARRAAPPLRAASAAP SRRWSQAPTP/K/RRLGYPPPRP PAHPGPR/PPLRRMVSRSSGEDP PRLT*TGSETPKSTWRELSSRR RSLQSKAATR
8233	38601	A	8288	30	460	RRCPAQRGEIWQSGH\RALLSC SGLHPFQTSLPVYTDRVKLPT QALAMVDAPPPTKLECPRLISV CCYAGSENFKPVDSLSSIGGS GGVGTRGNLLVCELRRPWDKR SIWAGV\SRFLRLSPSRFPLA*LG LSSYLTRKT

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8234	38602	A	8289	2	1094	RMSRISDDSRASQLDEFQECL SKFT\TRYNSVRPLATLSYASDLY NGSSIVS\SIEFDRDCDYFAIAGV TKKIKVY\YEYDTVIQDAVDIHYP EN\EMTCNSKISC\ISW\SSYHK NLASSSDYEGTVILWDGFTGQR SKVYQEHEKRCWSVDFNMDP KLLASGSDDAKVKLWSTNLDN SVASIEAKANVCCVKFSPSSRY HLAFG\CSDH\CVHYY\DLRNTK QPIMVFKGHRKAVSYAKFVSG EEIVSASTDSQLKLWNVGKPY CLRSFKGHFNEKNFVGLASSG DYIACGSENNNSLYLYYKALSKT LLTFKFDTVKSVLDKDR\EEDD TNEFVSAVCWRALTQMGESN VLIAA*QFRVPIKVLELV
8235	38603	A	8290	1	667	MRIKATSEDGTVIAQAEYGSVD IGEEVLKKGFAEKCRLASRTDI CEEKKLDPGQLVLRNLKSPIPL WGHRSNQSTFSRPKGHLSEKM TLDLKDENDAGNLITFPKESLA VGDFNLGSNVSLEKIKQDQKLI EENEKLKTEKDALLESYKALEL KVEQIAQELQQEKAAAVDLTN HLEYTLKTYIDTRMKNLAAKM EILKEMRHVDISVRFGKDLSDAI QVLG/SKGALLQLL*MD*R*Y GQNTVWLRRILKL/SEYVSEGNI LIAQRNEMQQKLYMSVEDFILE VDESSLNKRLKTLQDLSVSLEA VYGQAKEGANSDEILKKFYDW KCDKREEFTSVRSETDASLHILL *HGSKEP*RIKVMQTRR*FQIHI VKYCKRFIQRKGSLPQYKLSTR TVLS/SKKQLEYLKKIPSVDHL LSIK/TDIEKLKSSTQMEIG*KE* FGKSQMLMALKLRK*KKK*LK KGFAEKCRLASRTDICEEKKLD PGQLVLRNLKSPIPLWGHRSNQ STFSRPKGHLSEKMTLDLKDEN DAGNLITFPKESLAVGDFNLGS NVSLEKIKQDQKLIENEKLKT EKDALLESYKALELKVEQIAQE LQQEKAACAVDLTNHLEYTLKT YIDTRMKNLAAKMEILKEMRH VDISVRFGKDLSDAIQVLG
8236	38604	A	8291	1	325	
8237	38605	A	8292	1	593	
8238	38606	A	8293	1	2013	

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8239	38607	A	8294	2	1427	LLARGAGRTNPAPPLMSCGPW GKFLKCCEVYKSGPYKVQ*EEI TIHSRAEAESTYQIKYEELQTLA GKHGDDLRCAK/T/EISEEMNQNI SRLQAETEGLKGQGASLEAAIA DAEQWGELAIKDANTKLSELE AAMQRAKQDMA/RQLGEYQK LALDIEIATYRKLLGEESRLES GMQNVSIHKKTTSGYAGAPARI VSLLQNELLSLEVGVLKGHPTG KGEELGAPYSECSFGLCRRTVM LTQAPSSVVRSRNSRNHTVNSG GSCLSASTVAIPAINDSAAMSA CSTISAQKRTCCCTACEPARKYK DTASHQEPAVCQPACQLETADP KGGGVIALPQPPSPGMLCWPY CRAHATDYFLANFFSEFPCHFL HRAGAAQTQATGDGMEHGQS RELPKRKAPREESETSEEKSPNK WGPVSKQKKQLLVLDILTTIIRPT RGNAYTGLSTRKWKPSEENA LMQPNKKDEKGTLTQKLGL
8240	38608	A	8295	301	462	
8241	38609	A	8296	2	825	YPPSPPGRSAAHVSCTLYRTTP* WPDQRSAAPPTAWAAS*SPSAR RRPSAESMVPREPL*YRPSAATS AATPAISPARALGAGAPCPLFR RRSGPFGRTSAIRPPSSAGKAVL FPPHGRPVWPVGRLARYATAS GWGAHI*ASSGASE/PAVVSVLP AGSGASPFSASWDPPAHPAAA ASAAAVIPAL*RSGDRPPVLSFQ PLFWFLIRGDNSVSFWLLRGLP CPSQAVTTRHRSLLKEKLKRN KSCVNFMQSQVSVKYSNLVK HHHFCIRPL
8242	38610	A	8297	3	251	
8243	38611	A	8298	208	307	
8244	38612	C	8299	18	197	
8245	38613	A	8300	1	1866	

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8246	38614	A	8301	2	2558	FEVLWSDSSITSVTKSSEVTEFI SKLCQLYPEENLEKLIPCLAGPD AFYVERNHVDLDSLRYLASLP SHVLKNDHVRRFLSTSSPPQQL QSPSPGNPSLSKVGTVMGVSGR PVCGVAGIPSSQSGAQHHGQHP AGSAAPLPHCSHAGSAGSALA YRTQMDTSPAILMPSSLQTPQT QEONGILDWLRKLRLHKYYPV FKQLSMEKFLSLTEEDLNKFES LTMGAKKKLKTQLELEKEKSE RRCLNPSAPPLVTSSGVARVPPT SHVGPVQSGRGSAAELRVEV EQPHHQLPREGSSSEYSSSSSP MGVQAREESSDSAEENDRRVEI HLESSDKEKPVMILLNHFTSSA RPTAQVLPVQNEASSNPGHHP LPPQMLSAASHITPIRMLNSVH KPERGSADMKLLSSSVHSLLSL EERNKGSGPRSSMKVDKSFSA MMDVLPASAPHQPVQVLSGLS ESSSMSPTVSFGPRTKVVHAST LDRVLIKTAQQPALVVETSTAA TGTPSTVLHAARPPIKLLLSSV PADSAISGQTSCPNNVQISVPPA IINPRTALYTANTKVAFSAMSS MPMGPLQGGFCANSNTASPSR HPSTSFAANMAT\MPSCPAPSSSP ALSSVPESSFYSSSGGGGSTGNI PASNPNHHHHHHHQPPPAPPQP APPPPGLCIVCTSCGCGSCGSSG LTVSYANYFQHPFSGGPSVFTFPF
8247	38615	A	8302	2	266	YCGPL*SVWVARNPPGFAFVEF EDPRDAAGVV*ELDGRTLCGP\PSWGHRP*DDYCRRLPPIRRRP PRRRNLSCRSRSLYSPWTLSL
8248	38616	A	8303	37	535	ESWLVLGRRKAGRIGACGFEP PHFLTLDLEMHRDSCPL\DC KV YVGNLGNNGNKTELERA FGYY GPLRSVWVARNPPGFAFVEFED PRDAADAVRELDGRTLIGC\RV REE\LSNGEKKK/SRN RGPPPS\W GRPPSENDNRKEESFPPR\RRSP R\RRSFS\RSRSRSLF

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8249	38617	A	8304	2	668	EIAERRITQPAPPGPSRSGPGPA GELGGPGTGRALCPADNGGLC CGCPLAVP/GPLAVPR/ALKPQR TSLSHPTSVTNGGRGVSQPGPR RHPGLPTQASTKPPQSRRDAAP LGGAGRGGPGSMAAARTPRGG GH*GVDGPGRPRDASRLGRLF RPRSRADPVPG*P\PVAIGRDLPS PDNGQRP*GAWKSE/CPERR RVERLAAIGRLVFILPDFAVGRE
8250	38618	C	8305	101	183	
8251	38619	A	8307	329	399	RERET*SSINTTFIPGSVLQPDAS PSKTGTLTSIPVTIPENTSQSQVI GTEGGKNASTSATRSYSSIILP GVIALIVITLSFVFLVGLYRMC WKAHPGTENGNDQPQSDKES VKLFTGKTISHESGEHSA*GK
8252	38620	A	8308	192	537	KFPTSTPENGNDQ*\PQSDKESV KLLTVKTISHESVILNQNQNMDEI TEIEFRIWMAMKITENQKIETHS EESEEFNKTIQGMKYEIAILRKN KTDLTELKNSPQEFHNTLEVLT AE
8253	38621	A	8309	1	789	
8254	38622	A	8310	1	423	EDIWFDDVDPADIEAAIGPEAA KIARKQLGQSEGVSLSLVKEQ AF\AGEELEVVQKEVAEMLKG RILVGHALHNDLKVLFLDHPKK KIRDTQKYKPFKSQVKSGRPSL RLLSEKILGLQVQQAEHCSIQD AQAAAMRLYVM
8255	38623	A	8311	1	1077	MGKAKVPASKRAPSSPVAKPG PVKTLTRKKNNKKRFWWSKA REVSKKPASGPGAVVRPPKAPE DFSQNWKALQEMGSKKPKII QQNKKETSPQVKGEEMPAGKD QEASRGSPSGSKMDRRAPVPR TKASGTEHNKKGTKERTNGDI VPERGDIIEHKKRKA\GQPQPH PPR/IDIWFDDVDPADIEAAIGPE AAKIARKHLTRALALDCEMVG VGPKGEEESMAARVSIVNQYGK CVYDKYVKPTEPVTDYRTAVS GIRPENLKQGEELEVVQKEVAE MLKGRILVGHALHNDLKVLFL DHPKKKIRDTQKYKPFKSQVKI QDAQAAMRLYVMVKKEWES MARDRRPLLTAPDHCSDDA
8256	38624	A	8312	3	640	

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8257	38625	A	8313	1	1274	MGKAKVPASKRAPSSPVAKPG PVKTLTRKKNNKKKRFWKSRA REVSKKPASPGAVVRPPKAPE DFSQNWKALQEMGSKKPKII QQNKKETSPQVKGEEMPAGKD QEASRGSPSGSKMDRRAPVPR TKASGTEHNKKGTKERTNGDI VPERGDIIEHKKRKA\GQPQPH PPR/IDIWFDDVDVPADIEAAIGPE AAKIARKQLGQSEGSVSLSLVK E\QAFGGLTRALALDCEMVGV GPKGEESMAARVSIVNQYGKC VYDKYVKPTEPVTDYRTAVSGI RPENLKQGEELEVVQKEVAEM LKGRLIVGHALHNDLKVLFLD HPKKKIRDTQKYKPFKSQVKSG RPSLRLSEKILGLQVQQAEHC SIQDAQAAN*GCYVMVKEVG RAWPETGAPCLTASRPLQ*RRL SSPALLAACPPRLQRQC
8258	38626	A	8314	2	414	
8259	38627	A	8315	1	621	
8260	38628	A	8316	1	885	MGEKPGPLLFSAAKPKNPQEGER HKDEGDHPNNSFSPCSAHDRRC LQKHFAKIRDRTSTSGGKMKVN GAPREDARPVNKGTYLVSTGG QTVATTGSDQDDSESSLGC QEDSTALHPTSTSPGPSETVPPS LLPEATKRLLSDFESFGQTQR NLSCPLCPAGVWQEKTLCWR DAGGNRQAGVPQAPCMKSNN ALIVILGTVTLDAVGIGLVMPV LPG/SPALLQRQAEESPGRRTQG /RRVTTPTTASAPVAPMTAGAC RSTSPKFETGAPVGAR*RSMGR PGRMPGL*IKAFTWCPQVGRL PSLLAPGTKTQSPA/SGCQEDS TALHPTSTSPGPSETVPPSLLPE ATKRLLSDFESFGQTQRNLSC PLCPAGVWQEKTLCWRDAGG NRQAGVPQAPCMKSNNALIVIL GTVTLDAVGIGLVMPVLPGLLR DIVHSDSIASHYGVLLALYALM QFLCAPVLGALSDRFGRRPVLL ASLLGATIDYAIMATTPLWIY
8261	38629	A	8317	1	396	

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8262	38630	A	8318	186	2123	CPAHCWQEAMLSAWRLVMSP GGPCTQHPAPACHPSVLTPRK AGEPRP*WPPCPAWGPLADSSK PHWRPKPPASCRPLVRRPWGP QRTLPTLTSHWRASIR*SWNW TPPSSCFPQQLGAPRLSWPRAPC Q*ERRRNLLKPWT*STSR*PPPDQ GATMAPSTAPAPLSPRPSAPFA VVASSFPETSPERHEAAVRASSS LGTRAGGTSALCPPQRVSP/HRP PNNSPSISIPCMGSKASSPHGLGSP LVASPRLEKRLGGLAPQRGSRI SVLSASPVSVDVSYMFGRTPHSP PLAKEHA\AAAPHPSPPTPWWTY PLC*STAANQ/RGSSPPQRTPGH QNSVQPGAASPSNPCPATRSNS QTLSDAFTTCPEGPARDMQPT MKFVMDTSKYWFKNITREQG CPGGAVSISDSRIVPAIELLRKE EPGAFVIRDSSSYRGSGFLALK VQEVPSAQSRPGEDSNDLRH FLIESSAKGVHLKGADEEPYFG SLSAFVCQHSIMALALPCKLTIP QRGCHTLYLSSVSVETLTGALA VQKAISTTFERDILPTPTVVFHK VTEQGITLTDVQRKVFFRRHYP LTTLRCGMDPEQRKWQKYCK PSWIFGFVAKSQTEPQENVCHL FAEYDMVQPASQVIGLVTALL QDAERM
8263	38631	A	8319	15	909	LHVSHPGHADARGGLLQPCAA PPLWLCRIQCPRWFQTPSQVF YHAATEHGGKDVPQGQCLWE GCEPFQRQRFSFITHLQAANCRA EAQ/RSTPRAQKAIVNHPSAAL MALRRGSRNLVFRDFTDEKEG PITKHIRLTAALILKNIGKYSEC GRSWPRASRYQQGHQQLFILRS DLPSQVFIRDKLMERRNRRTGR TEKARIWEVTDRTVRTWIGEA VAAAAAADGVTFESVPVTPHTFR HSYAMHMLYAGIPLKVLQSLM GHKSISSTEVYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS

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8264	38632	A	8320	189	4419	KPGLFP*RVY*EYVFRLSQSLGE FHQF*FKRGQY/ATTSSPPFSPW ANIIRKATRC*CRWRFRFIMPFV MASMSA/GMLNELQQYCDEW QGGAAVVAQHVAPPPGIVEIDS EKFACQWLNAHFEVNPDCSVS RAEMYSEYLSTCSKLARGGILT STGFYKCLRTVFPNHTVKRVED SSSNGQAHHVVGVVKRAIPLPI QMYYQQQPVSTS VVRVDSVPD VSPAPSPAGIPHGSQTIGNHFQR TPVANQSSNLT A
8265	38633	A	8321	27	674	GPNNTPMPPSPSVRVQGQPNS QPSPPSGSSQPGDPMRKPGQNF MCLWQSCKKWFTQTPSQVFYHA ATEHGGKD VYPGQCL WEGCEP FQRQRFSFITHLQDKHCSKDAL LAGLKQDEPGQAGSQKSSTKQ PTVGGTSSTPRAQKAIVNHPSA ALMALRRGSRNLVFRDFT\DEK EGP\ITKHTPTNSCP*Y*KISGKY SEC GSADWLKETMENN LSSA
8266	38634	A	8322	16	341	PPGRGSAHPAARQLQTPGSAAP LS*HQGPASRG TGPPGPIKARAP SKSRAR GLRAAQRARLSARAR AGCA/PP*ARGAARKLGAPGTF QETLPPGTRDRKCCSGDAVVH
8267	38635	A	8323	1	400	MAEGMAMLRWTRLGTWPDDS FDEMDSTLA VQQYTQQNIR/AQ DCSNTDKNLE PPEGQDADCHG F*APRWHCSASYVASSEFAGDD RRI*IPLDPWVKKFCECWSGPT PFRE/CPRELN*HLKDGCSCRYL RAR N
8268	38636	A	8324	3	179	ISWPSPSLLGQTAALCANGAGP AGTPPGRGPV SARFGRGAA C VCSPPSPLA PLSR*RF AVMW WQEA*RRG PRLPLLSSLPAAG SGRAARAAAELPGG GRAGAR/P L/LT PAQVQGESARG/AGAEG GRGTPGP/GCPLPAGRSLCQP\G PRSPP*TAALCANGAGPAGTPP GRGPV SARFGRGAACVCSPPS PSPLA PLSR

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8269	38637	A	8325	1	1744	DFQERLSMKDQLIAQSLLEKQQ IYLEMAEMGGLEDLPQPRGLFR GGDPSETLQGELILKSAMSEIEG IQSLICRRLGSANGQAEDGGSST GPPRAETFAGYDCTNSPTK\W EAPGTES/DPRLPTVLESELVQRI QT/LSQLLLNLQAVIAHQDSY/V ETQRAAIQEREKQFRL/QSTRGN LLEQERQRNF/EKQREERAAL EKLQSQL/RHEQQRWERERQW QHQ/ELERAGARLQEREGEAR/ QLRERLEQERAELERQ/RQAYQ HDLERLREAQRAAQPPS/HPPSF NGEGLEGPRVSML/PSGVGPEY AERPEVAR/RDSAPTEENRLAKS DVPI/QLLSATNQFQRQAAVQQ/ QIPTKLAASKGGKD/KGGKSR GSQRWESS/A*AGPPLRLGLEG ATGQALAAAGSQEIRDTCAILW RGNQKAQLASWLRPPHTGPVW SPGPKLR*STLHLLTSTLKTVG WGPGALERARARRQRSLATWD QHSRTGTASFDLKQQQLLNK/L MGKDESTSRNRRSLSPTCPGRH SPAPPDPGP/APSPPPADSPSE GFSLK/AGGTALLPGPPAPSPLP/ ATPLSAKEDASKEDVIFSKRAV TQANH
8270	38638	A	8326	147	536	WAQEGRNTHQQYKILDVML KGLFKVCAGRQLMAGPVFDL GTDG*TGVQLKDGVWSALPRPV LRTTRSSLAAPSLLF/YYFDHNS NWNLIRWGFCNCQTVFNQ GPHSPISLVRTGVEVAREPSVG
8271	38639	A	8327	59	339	
8272	38640	A	8328	43	510	LLLWGGLRELTIMVEDEGEQM SIWVLKDGLGAPHLVLGSM TARSRCWTWRSSSHATAATSE GEGWGVGVLIADRPGWASDEG DGEGGGGGLLTSAEFGELAAV GEAGSAHPMFSFRPRYSTWCLT HIGQGGLELLTL*STRSASQSAG VTGMSH
8273	38641	A	8329	98	493	FFYFLFIYFFETESRSVTLAGVQ WYDLCQLPPLPPRLKRFSCSLP SSWDYRHPPPHPANFCFLVVT GFHHLGQAGLELLTS*S/PPSSAS QSAGITGVSHHARPGPLSLANN PRSQRTSATVCPEQLGLD

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8274	38642	A	8330	3	328	HSAARRPSSRRSSPRPETSCANS VNAGWNQDPHTHIVIRFVRSMAT AGSTRYR*GLHAAPSPHPRRP RSPPGAE*A/RREARSLKR*SPPC HPTKKATMCRCIYVPLIIK
8275	38643	A	8331	24	593	FEQQWGWAAAAAPPGKAHTR *TGRSPHRPHRTQPR*NPSGTA APGPVPS*AGSSH*AGSG*RAW GPGSSRR*RSCT*RLRSRGRPPR *GPSRR*VRSARPSRA*RAPPGS HRPGCGAAAPAPAASAPARAP WAGADSSAPPRTAD*SLPTRVC CLSALHTGSESGDLPGQTQIEG KQNYSVTVWFLAR
8276	38644	A	8332	24	832	FEQQWGWAAAA/CSSRQSTYSL RTGRSPHRPHRTQPR*NPSGTA APGPVPS*AGSSH*AGSG*RAW GPGSSRR*RSCT*RLRSRGRP/TS MRAFSPSLAIRSPKSGRDAHHQ ASHRPGCGAAAPAPAASAPAR APWAGADSKRASSYSRLEVLK VIPEAAAWSAGSFRT*/PENLPI PVNEIMLLSNCPGRMGSVPLKR RLILGVRLGERGPGAWCTCG PPTSMCTGALDLVSWAGRGMW WASQRR/PQGDRVRDKPGTCFL PSAVPVLPCV
8277	38645	C	8333	153	269	
8278	38646	A	8334	615	1275	QKRKTFTNTTKCYNKEKGWPR WPTGSS*CAQLSWRGMEGTSK YRTF/ILKHPGQEIPS\EPTPPGP/S SLTCRATWLSRAAPQPHMKPR EP*IISIYVAPSPSTIEKPSIGERF AIFITLLMRNGDLGEASCDAVK ALRQPWGKAQVEKNQLSQTKC PAMWHFESQNPALLIVRECLEG WKAYPQSTKEERLLHPEEGAG FTSSSQEKYVRVRGQRLWPTPF FSLQMIDRKERHLIPPVIKKR GVGQDGRLEAVSVHSSHGEW KGQVNTEPSTETSRSGDPIMNP LHQGLKSDMQSYMESQQSSPS ATHEAQGALDTQASWKKQQQ LRKSRAISSPQADGVQHGHEA RHCHDVLKRDRQTSWPCKMSS LAEEVVAADTWLLDNGTMQA TGRAAQVREQGKGMDLGQYIS CYLMTLSRAIKQKENKKVCFQ RLGKPRVKTASVQKK

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8279	38647	A	8335	423	998	PPSAVPHDHSSPART*\PQSLSVI TAELEPVRAVSLIAFFHGHGSAC MCPFRWRYSRFSLKQQRILAHDPVNTEFGIDRRHTIKFCLSAKQRP YPTITIRWQLSDNMVYTEKHIRI ISVTAAAIHPVIGSFPIPG/PIRALSTFLPVHIQRLL*GVHFPSF SCRAGAGVL*SASWRQQVQRQECPVLRQQ
8280	38648	A	8336	2	218	HPSPSPGLKHRSLSGV\PNPLL LPSGSFSLLPAGHSHGDPASAS QMH*FQNQTHPVP*PDPASLPA VQSHQ
8281	38649	A	8337	76	129	
8282	38650	C	8338	1	410	
8283	38651	A	8339	651	741	
8284	38652	A	8340	1	612	
8285	38653	C	8341	1	729	
8286	38654	B	8342	1	313	
8287	38655	A	8343	705	990	TRSSCWGKEASLDGNRGVVA ALHHFTGAAARQHSGSPLERGP HPQL*SPRS*VEGHWLEI/LQA* S*VLPQKQPHQPARCWQLLHWLPRPALLC
8288	38656	B	8344	1	588	
8289	38657	A	8345	220	678	MNAIPVASPCMVCSDLIVHVLGS RPM*PW*RPPTRFQWSEVQE/V MELTTMRPRQPPPPPPPPP*QQ QQQQQQQQQE*L*LAATPR APGTLAQGSLTPSQIFSA*RLKTDAAAGSP\GSPQTITDAELRVTLT VEGKSVFWAQLPQSFTDSPH
8290	38658	C	8346	1	411	
8291	38659	C	8347	1	534	
8292	38660	B	8348	1	774	
8293	38661	B	8349	1	705	
8294	38662	A	8350	1	297	MPGHQKAPLRPAVSKK\ESMLE KGKIK*LLKPEGILPISEPPSNRIF ACWGKPAWTACNSLRARR*R AISCCPSHW*KEKPPWRPIRKPP LPARWPIH
8295	38663	A	8351	616	988	DPQLQAGSGHIPGRNVCPGERI CWRGTPD/SDPSTPTY*PPLKE VAQGRDLIHASGCLWS*IPLEA LQGPQGCPQFSQVCCIPVIPTVE MKQGRQQLASDFQDQQDLEFY EILSWKPGILIIIPP

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8296	38664	A	8352	1	1668	MELVPEEATAVSARAYTGRWP LDAARTILVTAPGVGHTNIVL CGQASLDAYIKSICLKKEGRKE GKKGRKERKRDKYGKKEKK RKKGRKKRRKKEKKKEREK ERRKEEKGKKRKKEKERKKE KERKKLSIGKGVVYCLSSNTQK KQVSQTKIRVISTILFILAGCIVF VTIPAVIFKYIEGWTalesiyfv VVTLTTVGFGDFVAAHPSDHL CWVIVTCKGKYLLPDSPQEKA DFSGVAQKRNEPQKPL/IWC/W ELRSYPTALMMQERVV*KEKP KAAAPNRRLGLTEKLEF*R*EV AAAVEPHAVLSMIGDWLRVLS KKTKEE/VCRPPLFKSPSPNLRL LGVAHHVGEIKAHAAEWKAN VTAEFRETRRRRLSVEIHDKLQR AATIRSMERRRLGLDQRAHSLD MLSPEKRSVFAALDTGRFKASS QESINNRPNNLRLKGPEQLNH GQGASEDNINKFGSTSRLTKR KNKDLKKTLPEDVQKIQKTFRN YSLDEEKKEETEKMCNSDNSS TAMLTDICIQQHAELENGMIPTD TKDREPENNNSLLEDRN
8297	38665	A	8353	1	418	
8298	38666	A	8354	251	394	GAQVPTLLVGVLTVTISTVQNL AISLLGAKA*GEGILSVGRMY RVL
8299	38667	A	8355	107	250	EEGHLLDPRMVDPMAACTM QLEKLQTLNASL*KQLGGGLYL AKPQG
8300	38668	A	8356	331	893	SITENCENKPIPHVENKDITK YNSLKLPEHIRAEVMQPSKLD* VNP/LPSTCKERFVMQSHLART VGSSICNL*MSP/CFGIW*QLAE ANPAKCFP/GCWKTN SCTSSML CSKYVTPNGTVV*ITREGPISDD SILRFLLS METKRMQG LLV\STA QPKGHQSSYQLHKRGPEHIERS SSQPPVAAFGIH
8301	38669	A	8357	2	416	SGFRYGS DIVPFSKVDEEQMKY KSEGKCF SVLGFC KSSQVQRRF FMGNQVLKVPF MEDLRQYMFSS LKNSKKYAPTEAQLNAADALI DSMSLAKKDEKTDTLEDLFPTT KIPNPRFQRLFQCLLHRALHPLE PLPSIQQ
8302	38670	A	8358	1	2130	
8303	38671	A	8359	1	1152	

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8304	38672	A	8360	1	320	FKGTAAPWPLSFARAAGRQA GTDTRPSLRVRFPRERSARQKG RGRSVRLSAKSPPAKVETKPSG GSRTA*IFRQRSKQGKMGAKG KQAKWLLILRALICFSLSER
8305	38673	B	8361	1	1231	
8306	38674	A	8362	1	2276	GGRPKRLRTGNMVRSGNKA VLCMDVGFTMSNSIPGIESPFEQ AKKVITMFVQRQVFAENKDEIA LVLFGTDGTDNPLSGGDQYQNI TVHRHMLMPDFDLLEDIESKIQP GSQQADFLDALIVSMDVIQHET IGKKFEKRHIEIFTDLSSRFSKSQ LDIIIHSLLKKCDISLQFFLPFSLG KEDGSGDRGDGPFRLLGGHGPSF PLKGITEQQKEGLEIVKMVMIS LEGEDGLDEIYSFSESLRKLCVF KKIERHSIHWPCLRTIGSNLSIRI AAYSKISLQERVKKTWTVVDAK TLKKEDIQKETVYCLNDDDETE VLKEDIIQGFRYGSDIVPFSKVD EEQMKYKSEGKCFVLFCKSS QVQRRFFMGNQVLKVFAARDD EAAAVALSSLIHALDDDMVAI VRYAYDKRANPQVGVAFPHIK HNYECLVYVQLPFMEDLRQY\ MFSSLKNSKKYAPTR/EAQLNA VDALIDSMSL\AKKDEEGQTPL KDLFPTTKIPNPSIFRGLFQCLL AQELLHPR\EAFYPPISGRHIWE YAGILPAEGGQRKSSGFPLS*N* RTLFFL*FEAKEKGFKWTAQGI FQGQPWKVGPTAKKLKTGARG EPTFSVSSLAEGSVTSVGSVNPA ENFRVLVKQKKASFEEASNQLI NHIEQFLDTNETPYFMKSIDCIR AFREEAIKFSEEQRFNNFLKAL QEKVEIKQLNHFWEIVVQDGIT

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8307	38675	A	8363	624	1992	GRKVVVVLPPPLGNQSTPGGIC LSAQLPL*RD**SASARCSSPGS *TSPPSYFLPDPRGPGRALQRFS RSPSSPGGNPA\SAAPSPRSKLLL GPPG\AAAATAAAAGAKPELRH RLPPSSATTASRV RACHFLLAS AAATPAFSPPPPPP\PASP SQ RTP KEVQRAGKAAECPA APELLGF GGSRDSAGE LGGLSSD ACV/PD SSEPGVRRPARRRTL AHALTHA STHTRTLPGSCARV AVPVALCK GGFT*PIFSPQYVTNTYPGEEGA RLGV LIGREQTV SAILLGGSR SK APTTTVAVASAPPVTAAGR\TP HASIRIPPRMILSKPSPPPQAL*K GV MAPAQCPPARRGQAGLEGT \GFGKS PTRPHQLTAASSPCNGL IRIRQGQGGKGRRWRGSSGDP GAWYC FRGRRRG PSCP SLRT AT LIPGLGGHGGGSGDAASPLL GT RDGGPE AHLGKE
8308	38676	A	8364	123	248	
8309	38677	A	8365	1	540	MLEALGALNKPESSRPLIPELHL ASTAAANLGEHPNQQRLKFAS QETPEESANA VPHYHKLCNRVS HWGNRRGQHIRNTMDNPRP\W GKTTFV*IIVSPLPALLAL THSW DSQVRPAVL/QP/YSHGTGTP*W RSSSPCAASST*KSPYP*CH*QR LSQSPSA\FRPTLRRRLSRSTRCRS WRRK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8310	38678	A	8366	31	1429	RETRSCWAHYHAESSKHQKAK LKDSRKARRSIELIGPGSSQKGG DICSLIHLSSKLGILCYSKTGNM GGWEGGMQLRVSSENSMGKSS RERAAADLPQGSCWHELPGRLLI NTRISLKPRHVWNLSSVLCQVV KKVKVSMQMFMHMPITSAMQGD RLGICVTQFDPKLLERGLVCAP ESLHTVHAALISVEKIPYFRGPL QTAKAFHITVGHETVMGRLMF FSPAPDNFDQEPILDNFNSQEY LFQEQLSKDLTPAVTDNDEA DKKAGQATEGHCPQQWALV EEFKPV/YLPSAVPGDWLQARC GHS\PNTCRLAFHGQSCSTG*RT GTTPTASC*PG*RCTS*STSMGLV ERAMDDYSIGRSLFKKETNIQ LFVGLKVHLSTGELGIIDSAFGQ SGKFKIHIPGGLSPESKKDPDTP PSKTGPGWPVGGQPGRRRSPSG ANPHKMGWLTRPFKRYVFDTH KRMVQSP
8311	38679	A	8367	3	119	RSPREGGGHRGPSGGRCRR PGWAGNEAM*PDRRARVVGIE VPAAEEGGAAVAQDGLGMKR CSLLRDLL
8312	38680	A	8368	3	389	SFATHTAGPQPPAA/PAPKMA ARASWGRNPPRAPVRTSAAAA RAAGTRRPAPARVACPLPAGPG SPRRPPRAARTRRARRRPGPGR AAQQSAGRWRTPPAPAPSGASF AAPAAGSASPPSHRRSAPGGGS TQSSLSPSSSALHSSPPSRPWA ARHERSSWS*/PRSALPPTSTEP/ GPGPRAVLPGLTRSCGRGAGQL E*EA*GAA*APPPLGWTP*LLCV HVTLGNAVSHWVSCGAAPPNG GVGVGYRARSPREGGGHRVPA RTREVPPSPRMGWNEAM*PK* VSSRWPPRLPSRGMAAPRGA AAGGARRVEGWEGASLLGSA PGSARWPRAAPAPASQVGARC AAGAPCPRLPRVWRRGAVGAE NAPSELAASTPAG/GGRGAGSG SSDLAGRGAVAARFPGG*GHSR QQHGAEKDGQGFLGSQPPP SCAHQRGGACSGNAAPSSAR RMSASSRSRQPEKATQSRNSA RSSAARPRSRSTAVSRAQVDTA SSCAFWRVFCSSCRRFCESAEP TVSTRWW

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8313	38681	A	8369	3	1130	LDFQHHNYKAMRKL MKQVQE QCPNITRIYSIGKSYQGLKLYV MEMSDKPGEHE/LGYWHGEW GEVGTGQGPRHEPAASPHVSPG EPEVRYVAGMHGNEALGRELL LLLMQFLCHEFLRG N P R V T R L L SEMRIHLLPSMNP D G Y E I A Y H R GSELVGWAEGRWNNQ SIDL NH NFADLNTPLWEAQDDGKVPHI VPNHHLPLPTYYTLPNATVSILR AAVEVLWGADPCLCLLPLLTCP IQVAPETRAVIKWMKRIPFVLS ANLHGGELVVSY PFDMTRTPW AARELTPTPDDAVFRWLSTVY AGSNLAMQDT SRRPCHSQDFS VHGNIINGADWHTVPGSMNDF SYLHTNCFEVT\VELFCDMFPH ENELPHEWENNTDA
8314	38682	A	8370	1	2229	MWGLLLALAAFAPAVGPALGA PRNSVLGLAQPGITKVPGSTPA LHSSPAQPPAETANGTSEQHVR IRVIKKKKVIMKKRK K LTLTRP TPLVTAGPLVPTPAGTLDPAE KQETGC PPLGLES LRVSDSRLE ASSQSFG LGPHRGRL NIQSGLE DGD LYDGAWCAEEQDADPWF QVDAGHPTRFSGVITQGRNSV WRYDWVTSYKVQFSNDSRTW WGSRNHSSGMDA VFPANS DPE TPVNL LPEPQVARFIRLLPQT WLQGGAPCLRAEILACP VSDPN DLFLEAPASGSSDPLDFQHHNY KAMRKL MKQVQE QCPNITRIY\ RIGKSYQGLK VY VVEMSDKPG EHELGEPEVRYVAGMHGNEAL GRELLLLM QFLCHEFLR\GNP RVT RLLSEMRIFLLPSMNP DGY EIALHRSS*LVGLSEGRWNNQ S IDLHNHFADLNTPLWEAQDDG K VPHIVPNHHLPLPTYYTLPNA TVAPETRAVIKWMKRIPFVLSA NLHGGELVVSY PFDMTRTPW A ARELTPTPDDAVFRWLSTVY A GSNLAMQDT SRRPCHSQDFS\ NGNIINGA\WHTVPGSMNDF S YLHTNCFEVT\VELSCDKFPPEE* ICPKEW\NNKDALLT YLEQVR MGIAGVVRDKDTELGIADAVIA VDGINHDVTT ALGPGIIWRLA* PPGD\YMVDLPSSEGYHSVTRN

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8315	38683	A	8372	409	517	HFRSAGVCW*PPPLSVHGPR*H FRSAGVCWSSTPDPVCLGITSR GCRTAKIAAFSFL
8316	38684	A	8373	957	1230	
8317	38685	A	8374	1	2658	MVEEVLLDNILKSVFRLGSILPI TFSFPSDSQGPLLQVCRLSLEIH SRPCLPGYHQWRLQNSKDCCL FLPLEASSQRGTCQMPAGALFY KVSVDPFWEVSSSQETWGSGIH LRRQSVPYQSSAVLGDLLFSS EPACKNKSAEAVPTAAPSPRDA LSREEESREAVWPQRQLSHAPM GSAQLELPGGFVYTWRRLPQTQ ASVMLDAPPATKLEHPRSSSDC CVGSKNFKPVDLSSLGSMGVG SVELDH LAPWLQPPFQESERFC LSGVPVSPPLSEEINHALPKATV MASLGA VARKDNADSLHVPPP TPLFASRPVTALKYWQAPREDL QPFTTRVTLHWGKNDQTFWGL VDTSELTLTPNDPKHHYGPIK VGA YGGQVINGVFAHIQLRVN PMGH WTRPLVIFPVPERKISIDI LSSWQN HIGSLIGRKTDGSWR MTVGYRKL NQVVTPIAAVPD VVSMLEQINPSPSECLKMSHQI TMRPEL PIMNWVLSDPSSHELG YAQQHFIIKWKWYICDRAPAGS ESTTSPFITQWVHEQSGYGD RD GGYTWAQQHRLPLTKNDLAM AT/AECPI SQQ/QRPTLSP*HGV/I PRGDQPA TWW RVDYIAPLPSW KGQRFFFTRIDTYSGYKF IYPAP NASAKNTICGLMECLIHC HGIP HSIASDEGTHFIAKEVQQWAHA YRIHWSYHVPHPEGWGKV LQ
8318	38686	B	8375	1	3258	
8319	38687	A	8376	3	196	DWESCQNQC*PQQPRLHGTHW DPC*DME/CPSVCPQSPCP SPLR DQWTIPCPDPLSPQTMAAGR W
8320	38688	A	8377	248	423	
8321	38689	A	8378	407	683	LSSYCVHAGCYPREAAMRMISF SPSQ RWKPGESWRPPARRGT CTPGAHPPRPPSPRAAGPAHRP/ PPP/PSSELPRAPQRPGRNRRPG NSGPV

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8322	38690	A	8379	11	888	TGKLHTSVICNSTELTSWDSRR LFLKGKPLLSAGAGVNMPST APFPAPCKGSLRGNPSRPTHPS/S/ RSPQLERDTGGASFRVDEGEER GASSSGGS\RDTEGGSGAVPFGE SWRPPARRGTCTPGAHPPRPPS PRAAGPAHRP/PPP/PSSELPRAP QIGPEAPTLGQPHGRGLFPLFK LSKLYWPLGETRSRPRPRPYCQ SPGPGVTERGRRWSAPRAPGAP RSPRWRRQSGPGALPRPRVNPC IQHGSEASYAPAL*WALRIPQG GNTSSADEPADFTPNNQQADQM PCLHSCSCG
8323	38691	A	8380	1	3135	
8324	38692	A	8381	44	2279	RQTVGDAQPHHPPQPPRPSFP PFPALPCTPAPQLPPSPSCLREEF PSSPMGQTPTGWSSSGGPWTSP PHSSSRRLASPLAPLSVIPSTSQT MARSSSQSQTTRFSPTPTHSQQ ASQAGTLWPWWLRSGTMLTSP LVGGPHFIRNRRSMVNTAC*S SRPSLGLERSQTTGATRPGGP*R SRGSMPTILPSGPSGATPTKPS SPRTGAGPMPCFSTRAVGCSGT WPSAQATRCWSWASLVEMAISK TAH*CPSQCGRGIALIDS*IPTQA SKGCSSTGYTGKKGPTTVSSAC SG*RASLGGPAGAGTRSPALVP GSRDDGTYDSNPSA*VAGASA VGSCAASPLGEEACAAATGPGE SFSEGWHEQ/TSLAVGPGTGAT ELVLPLEG/HSPTSVPCSRGGP TWAVALYRPP\SPPGCSGTPTSP PWMVSVTPSMGWGTSCWSGP KTGTPPSCFRAAPPRLAQPRPPT SSPLRLST/ASSSLGPVTQWLL EPHDAIRVLLDNQTVTFQPDHE DGGGQETFNATGVLLSRNGS\G SRPASTAGPPSR*SRSPTSSTPPP ASRPSTRTARRGSWGSGITIQRST TSGCPMAPPPFQGALRRCFSTL E*PGRSTGQASLARGMTSCLPT SPLFSTHNCKKTAPGLNI*SPTV TEIAHASMTPWPCATQASDFTR GKSVKTTSRRTPPSISTRPPSMV VV*LKPTRGRPR*FSTPAMLRM

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8325	38693	A	8382	1	2900	MVWGFTCSTTATLEQSTAAS SRTSNQDISASSSQNHQTKSTETT SKAQTDLTQMMTSTLFSSPSV HNVMETVTQETAPPDEMTTSF SSVTNTLMMTSKTITMTTSTD TLGNTEETSTAGTESSTPVTSAV SITAGQEGRRTTSWRTSIQDTS ASSQNHWTRSTQTRESQTSTL THRTTSTPSFSPSVHNVTGTVSQ KTSPSGETATSSLCSVNTSMM TSEKITVTTSTGSTLGNPGETSS VPVTGSLMP
8326	38694	A	8383	3	468	SPPPLGHPRPISQSCPRAVCSR GPSALLCRPLLGPEDAP/P*GSS WP/EGPLWGPYRYPSPSVVGNGH WSGAGVADE/PAAPSRRPAGARR APSGGRPAARCSRRRASRSSR PGPPPAGRAGR*ACPAARSAVA AAPRPPGAP*CGSASSATAPAA APP
8327	38695	A	8384	3	1319	DSSRLCSRRSSRGHTVGLWGQS PGLGTKGRGGGG*EDPPPPTPR GQQDPSHSAKQ/PPAGLPAGVK WGPS\SSPPSPPPP/PAKRELQGRC PKFGRCSEGRRAAGDPGPS/GCPR AKQTHSLGTAVPVVVVIYPPVH ALSPAANRTLN*NIISSQPLGTPP MVPGE*HGPRGHA*PRHPLPK DPPQG/PAQR*RGCSEVQRRP GTLP*GSPP/GNSHNGLPAMPPR *PPTAR/PQFPNPQDPRPLGQSSS EPLRPCPKTLCKTRHPDLRG RG KQPRGWAQVPPGEVFGGGNGA QLEA*EGARMSASP\P*SLESD TTASPPSQGLFTAQKGLWGPQR RLGALWLGRRESEKTSWRLLQ SQVYWSCREEVEKCSRQGARL GQRRGWENVLGKSGSASECLS CPFCA SLLAMP SGP WELSKVA QCFPLKTGHPGPQEGSNNLKVT QQS

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8328	38696	A	8385	1	771	HSLIHSLTHSLPSPPVQSPA WLR PLCLSAPAT*ATA/CRVCLPGSC DSCSDSWQVDDCPESCC EPPCC APSCCAPAPCLTVCTPVSCVSS PCCQAACEPSPCQSGCTSSCTPS CCQQSSCQPACCTSSPCQQACC VPVCKPKVCCVPVCKPKVCCPK ICCVPVCSGASSSSCCQQSSRQPA CCTTSCCRPSSSVSLLCRPVCRS TCCVPIPSCCAPASTCQPSCCRP ASCVSLLCRPTCSRLSSACCGLS SGQKSSC
8329	38697	A	8386	1	453	AQSLGRARPWRGASSGRVPDS\ RLE*TPTVCLA/PEHGIVAA TAS LGTFPLTQWEGHNGCYQRSLFP PQSMPTPPCPASETP/PVFRYRPP PSPGSSPRSI AHPVPLGS\SVNP PHPEVWNLPC TWKRLATSLQQ KFTFGPKL GITNV DSDLS
8330	38698	A	8387	39	630	IGTWRFGGSDRQE GQSRQGNCE ANDWPVSTALA\KPRGATGK NKSPGNDPAAAIATAGAAATA GPGSPCSLQN/RPHLLPFIS*APP EG*TPSTQDRPWYSAGAA*ASV KCRTGA VQKQLL*NR RRFPGS PAPAQTADPGRGGGRGTGS/GV PSTGSSSDWQERPWPCGGMEPP RLRCLLRC SGSIHSPTALQSLRN HQ
8331	38699	B	8388	1	2673	
8332	38700	A	8389	10	281	TTSDPYH PAPEIGLG*SPN/GGP MQGDLP GASGKEVSFL*GNVN EDIHN SGC V WQPSCDH LARQP KNKAVTMETKKRQKD TGSSLF SSSCS
8333	38701	A	8390	3	416	EYQQCQCCHKPRGPFGFHSPG PRGGSYIS DLSGQESPEAGGGFP PRISALRPKSNC SFLRPRGRGS* YPAAGRPRAPGGPALQLSPR/PH PA APPCRAA P QPKPP RRDVEPA P/PKLHPPP/GGPAPRRQGQDLP GRLQP

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8334	38702	A	8391	98	1286	TMPPTRFLAHPDQAYVCFCCV EGKERNLRSRKHTSPHSSTPAH LLSKPPRSSEVVYHSQVLPGTP RPTSQLHLELVLPVFARLPGHR GIEREQSSPYS/RRGHHRGYTEE D*VNS**DGVEPYGKVAAG PQRGRGYCCPWRRQRHGRHR/ RRPPIALQRRQ/PARTPSARPIA LQRRQ/QARTPSPRPPIALQRRQ RHGRHRPRP/RHSAEKTTART PSPRPIALQRRQRHGRHRHGHA HRSAEKTTARTPSPRPPIALQRR QRHGRHRPRPPIALQRRQRHGR HRPRPPIALQRRQRHGRHRPWP PIALQRRQRHGRHRPWPITLQ RT*RHRCHRHHPL/PLQRT*Q HGCHRPWPPIALQRT*/PAWTPL AMATHRSTKKITA WTPSPRPI ALQRT
8335	38703	B	8392	128	457	
8336	38704	A	8393	348	1355	GNEGKAGTSSCWPDKPAAPAV ASSLAS*GASNSTPSPAAGSTVA SASWLVESWSPGVTVVGVTLEG SSKLGPMLLSTSTPDEAWSPESS CLLVAPGVWLLPEAGFLLGIH SQGAAPPSSSCFSTSSFSLSSS SSSSSSSLPMATPCDLGFSKCG SRLSPPAKALLEDALTPrGGA* AWMRDRASIGADPVWLCPSP SSFLCFSLKA VCTSSA/PPCYTT GFLSPTQKTKPSKQGLGVCSSQ VSRHPALGQLLQDIAEDKSPPH SGSTICSLWLSSSRAPCDRCTSR PSSKVQGYLCQQDSRSRTRAG WKTPTVVGRHVPVKIEKESIRP ANFG
8337	38705	C	8394	154	219	

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8338	38706	A	8395	3	1054	LYLKVCYI*KELFEFSNLYKHP GEEVWERILRV*DNGGRNI\KL YQAEFIDLGPVSRDSAFAVAAQ GVKKGSNRLFPWLAEIWITRWP TVSELEMPDLPWFNVEEGIKRL REIGMVEWISHFRCTHPSWKGP EDIPLTNALQNRFVRAAPASLK SLVIAL\FCMSDATACTAVTQL QNLNTMGIIGSRGVRDQVVAL NHQRQVGVANRQGT/PR/QRG KKRTR*PGQAKRPGPKERGTRS HAYAHTSVTPKNNRHDT QRTPQQKRDAQHQTE NTSRPPSHVSFFRSKKRRRPQ HEERNKRTRTEEEARERNRAN KDDTKRQPPKKTRENRRQLWS
8339	38707	A	8396	140	398	
8340	38708	B	8397	15	192	
8341	38709	A	8398	1	1167	AGTARRAPESSRRRAVAAGHPE TMGKLVALVLLGVGLSLVGEM FLAFRERVN ASREVEPV\EPENC HLIEELES GSEDIDILPSGLAFISS GLKYPGM PNFAPDEPGKIFLMD LNEQN PRAQALEISGGFDKELF NPHG\ISIFID KDNTVYLYVVNH PHMEVHCGRIF*ILREQQRSSGY YLAKTIKTWNFFKS VNDIVV LGP EQFYATRDHYFTNS LSSFFEMI L\DLRW TYVLFYR\PREVK\VVA KGFC CSA\NG\TVLSQTQKYVY VIAD VAA\KN IHIMEKHD NWDL TQLK VIQLGTLVD NLTV DPA\T GD\LAG CHPN PMKLL YN NPED PP\GSE VLRIQ\NV LSE SPRV STG YANNGS\VLQGTL WASVYHGK ILIGTVFH KTL YCEL

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8342	38710	A	8399	89	1685	KGPLLLSLPCRAGAMAETS\AT GACGEAMAAAEGSSGPAGTL GRSFSNYRPFEPQAFGASSPS\W RLDGAFSGNERAEGCKVPQEG RLLKLLAG\LTRP\DVRRPP\LGRG \LVGGQEEASQEAGLPAGAGPS PTFPALGIGMDSCVIPLRHGGLS LVQTTDFFYPLV\EDPYMMGRIA CANVLSLDLYAMGITECDNMLM LLSVSQSMSEEEREKVTPLMVK GFRDAAEEGGTAVTVGQTVVN PWDLLIGGVATCSIANQFEF\IM PDSAVVGDV\VLTKPFRNPGL LFNAHQWLG*FLERWD*S*RW WFSREE\VELAYQEA\MFNMA TLNQNCCR*MHTFNAHAATD IT\GFG\ILGHSQNL\AKQQRNEV SFVIHNLPIIAKMAAVSKRASGT VWGFFQGTSA\ETSGGITGFCLP R\EQGGLAFCSEIQILPKYGRGS PKAWIVGIVEKGNRTAPDPLTS PRVIEVLPRG\ATAAVLAP\DSS NALLLSLAREIERTEVVWTLEP LSTITDGSQLIVKKFPKKAACI VVPAALSR

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8343	38711	A	8400	30	2391	ARGRPLLAARSSRPCPRLPK RAGPAPAAPHRGDQEARNWFSG AAPSRLPPAPRFSGPAAIFLSAQ GPPSGAMQPTLLSLLGAVGLA AVNSMPVDNRNHNEGMVTRCI IEVLSNALSKSSAPPITPECRQV LKTSRKDVKDKEETENENTKFE VRLLRDPADASEAHESSSRGEA GAPGEEDIQGPTKADTEKWAE GGGHSRERADEPQWSLYPSDS QVSEEVKTRHSEKSQREREDEEEE EGENYQKGERGEDSSEEKHLEE PGETQNAFLNERKQASAIIKKEE LVARSETHAAGHSQEKTHSRE KSS/QFSAA*EAGSQENRPQESK GQPRSQEKSSEEGDEDATSEVDK RRTRPRHHHGRSRPDRSS\QGG SFPS\EEKGHPQ\EESEESNVSM ASLGEKRDHHSTHYRASEEED YGEEIKGYPGVQAPEDLEWER YRGRGSEEVYRAPRPQSEESWDE EDKRNYPSELDKMAHGYGEE SEEERGLEPGKGRHHRGRRGEP RAYFMSDTREEKRFLGEGHHR VQENQMDKARRHPQGAWKEL DRNYLNYGEEGAPGVKWQQQG VLQDTK\ENRVEARFQDKQYSS HHTAEKRKRLGELFNPDYDPL QWKSSHLEERRDNMIDNFLEGE EENELTLNEKNFFPEINYDW EKKPFSEDVNWGYEKRNLRV PKLDLKRQYDRVAQLDQLLHY

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8344	38712	A	8401	73	1922	ILPVPIIP/CRQVLKTSKCPTRQA DLGHCSDPSCSYSLHITFPADASE AHESSSRGEAGAPGEEDIQGPT KADTEKWAEGGGHSRERADEP QWSLYPSDSQVSEEVKTRHSEK SQREDEEEEEEQNYQKGERGE DSSEEKHLEEPGETQNAFLNER KQASAIKKEELVARSETHAAGH SQEKTHSREKSSQESGEETGSQ ENHPQESKGQPRSQEESEEGEE DATSEVDKRRTRPRHHP\RSR PDRSSQGGSLPSEEKGLPQESE ESNVSMAS\LGEKRDHHSTHYR ASEEEPEYGEGNKRGYPGVQA PEDLEWERYRGRGSEEVRAPRP QSEESWDEEDKRNYPSELDK MAHGYGEESEEERGLEPGKGR HHRGRGGEPRAYFMS\DTREEK RFFGEGHHRVQ\ENQMDKARR HPQGAW\KELDRNFLNYGEEG APGK\WQQQGDLQDT\KENREE A*VFKINHFS\SHHTAEKRKRLG ELFPNYYDPLQWKSSHERRDN MNDNFLEGEEENEELTLNEKNFF PEYNYDWWEKKPFSEDVNWG YEKRNLAR\VPKMDLKRQYDR VAQLDQLLHYRKKS\AEFPDFY DSEEPVSTHQEAEENEKDRAEQT
8345	38713	A	8402	1	381	
8346	38714	A	8403	1	444	MKLIVGIGGMNTNGGKTTLTNSL LRALPNCCVIHQDDFFKVPALA RGVLESLDMEAQLTVQAWLS SPQKFARAHGVSQPEASDTHI LLEGFLLYSYKPLVDSLYSRRY FLTVPYEECKW/KEKYPQLHSP *SPRPLRWPRAHVPEV
8347	38715	A	8404	3	421	
8348	38716	A	8405	3	4065	SAPPDVTTYTSEHSIQVERPQGS TGSRTAPKYGNNAELMETGDGV PVSSRVSAKIQQLVNTLKRPKR PPLREFFVDDFEELLEVQQPDP NQPKPEGAQMLAMRGEQLGV VTNWPPSLEAALQRWTISPKA PCLTTMDTNGKPLYILTYGKL WTRSMKVAYSILHKLGTQEP MVRPGDRVALVFPNNNDPAAFM AAFYGCLLAEVVPVPIEVPLTR KDAGSQQIGFLLGSCGTVALT SDACHKGLPKSPTGEIPQ

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8349	38717	A	8406	10	580	KQCALLTFICSLPMMSFGFAPAIT VTVVN/PRHPLI\RDMLRRIKED DDKTVDLAVVLFETATLRSG YLLPDTKAYGDRIERMLRLSLN IDPDAKVEEEPEEEPEETAEDTT EDTEQDEDEEMDVGTD eeeet AKMS*ALLTFICSLPMMSFGFAP ITVTVVNFVLCSKTGSQVFRS ENWKVWAESSRGDHDDCLDL CSVLCWGRTATGAFSCPAQLIF AVSSSSVPTSISSSSCSVSSVV SSAVSSGSSSGSSSTFASGSMFK LRRSILSILSPYALVSGKRYPDR SVAVSNKTTARSKTVLSSSSLI RRSMSLISGCRD
8350	38718	A	8407	1	1967	MTMAAAAVVARGAGARAATA AALRGCGCTAARGRPCAGPAR PLCTAPGTAPDMKRYLWERYR EAKRSTEGTKKYTTSLNARHY YTHFTEENEDEINSSSYASQKK T ^{FE} INPRHPLI\RDMLRRIKED DKTVLDLAVVLFETATLRSGYL LPDTKAYGDRIERMLRLSLNID PDAKVEEEPEEEPEETAEDTTE DTEPDEDEEMDVGTD eeeetg KESDDPMAYIHFTAEGEVTFKS ILFVPTSAPRGLFDEYGSKSDY IKLYVRRVFITDDFHDMMPKYL NFVKGVVIRKKLVRKTLDMIK KIADDKYNDTFWKEFGPTTKL\ GVIEDHSNRT\RLAKLLRIQSSH HPTDITSLDQYVEK\MKEQDK IYFMAGSS\RKEAESSPFVERLL KKGYEVYLTEPV\DEYCIQALP \EFD\GKRF\QNVVQGKECKFHE S*ENLRK**CKSVEQRISALCLN W\MKDKALKDKI*K\ALWVSSA ALTESPVLLVAQPVRDWSWP TLGE/RSMKAQA\YQTGQGHLL QIYYAESERKHFEINPQTPLRIR D\MLRRIKEDEDDKTV\LDLA\W V\LV*NRQRLGSGYLFTQLKAY GDW/RLERMLRLSLN*PLMPK VEEEPR/EEEPEETAEDTT\EDTE \QDED\EEMDVG\TDEKGRTSKG
8351	38719	A	8408	181	462	GMASASDSSKTGFRGKQVVAG AVGDSAKESQGQPPGAPPRA AGL/WRRHHCSF*AD*TTNAPG GKNPRPGKGAGGEQGTAGDFT CQMPRTQNTL

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8352	38720	A	8409	3	228	STGVPVSQQNLP\LEKASVLFNT GALYTQIGTRCDRQTQAGLESA IDAFQRAADMSPPGLTRRSLGP TRWHQGTPH
8353	38721	A	8410	129	311	RCFQPDCSHSTPGTGPRRGCL LSSAAPW*KPPAAPRTPHSRSH NRGPRRQQHARHQDDP
8354	38722	B	8411	1	789	
8355	38723	A	8412	1	933	TVVLKDFILEHYSEDGYLYEDE IADLMDLRQARRTPSRDEAGVE LLMTYFIQLGFVESRFFPPTRQ MGLLFTWYDSLTVGPVSQQNL LLEKASVLFNTGALYTQIGTRC DRQTQAGLESAIDAFQRAA\GP TRGGRASTYEMLPAAS/PEIPGA SLQREE/QWTGAWTHQQIYPQP GTTP*SPPQAQPSRFLFAMDFA ATTSAIGSARPSTNQS*GYFHTG RSWQPVA**ECHILRGNNAENVL HDLLSH***RQN**NQENLQEAF LPELGHQQEQTEVSQHLVPIG RGCTASGQEEAALPFQPSQLRQ FLVL
8356	38724	A	8413	1	389	
8357	38725	A	8414	1	506	
8358	38726	B	8415	125	700	
8359	38727	B	8416	19	338	
8360	38728	A	8417	1	3335	MAALWNTCGAWKNMLIPECH SQLRVAANPKVREQVRLELSF VNSDLQMLKEELEGLNISVGVY QNTDEDGYLYEDEITDLMMDLR QACRTPSRDEARVELLMTYFIQ LGFVENRLFPPTWQMGFLFTW YDSLTVLVSQQNLLLEKASVL FNTGVLYTQIGTRRYRHTQAGL QSAIDAFQRAAGVLNYLKETFT HNPSYDMIPAMLSVLVKMMLA QTQESVFEKISLPGIWNEFFMLV KVAQEAAKVGEVYQQLH
8361	38729	B	8418	1	1689	
8362	38730	A	8419	2	722	CPGGSERGQRQPCGCRSGRTE PGFSPC*KSAAPRPQAVSLKSASP RPSSSS\GPAGISSLPGRESRSCGT QNILGPQLVSG*PL*GR*CQFP AAAEPPAVPL*AEDISA/GPPAV *AP/SGLAHLASG/PGPLPPLGG AGLV*QSI**GGHQGADEGP*G EMDAKEAGPAAQNCDLHVCVG ARGAEGAPGEGCIS*QPHAPDA L*AASELPKDELLRQCSGG*RC SPAGSAAPRAGSSAVLEPQ

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8363	38731	C	8420	144	439	
8364	38732	B	8421	1	4747	
8365	38733	A	8422	1019	1880	YCCPRGGNAGCQTRQDPSCRPGPSQGLSLPPGR\PGAAVECGARSRGWGQQDGPSPGKAQVPAEPAPPQTPGPPEDPCLGPRNEVPDGG/GARQSHHPGPPRSPGPEGSPQAAARLVDWRVSRPQNQLPNPGP*DQPPRPAIPTATPSCNGPGFPAPRPRPLSSEEAPSRAGPEEEAPPTYTPRLRRGRPARGPVCR/PPAGPPAV*PEFRRFALPRASVSGFQSS\PVAAGGAPDPGPGRLLGYTDAHGDLLPLNTTACTGPWPAGPRHCASGAEA
8366	38734	A	8423	240	763	VLVARRPQRPGHEPAVLQQ\PAAGP/PVPRKPNPSPPSRSPAGLRPPGRAGPLTSRPCPGLPAFTGHT/PVGPVRPKAAGPRRRTYQGRGMGPRPRPRRPVVPVGGERSHSHPSGPLLSPGPWEWGLTSSCPARLEGVSA/TQNQLPNPGP*DQPPRTCHPHGYTQRI/PSGPLRSPGWEWGLTSSCPARGLEGVSAPISSRIQGRRTSLPEPAIPTATPNGYIGSGFPAG
8367	38735	A	8424	2	609	PYSISIVSTGPSADS VYTKVLL EGETLSVQCSYKG YKNRVEGVWCKIRKKCEPGFARVVVKGPRYLLQDDAQAKVVNITMVALKLQDSGRYWCMRNTSGILYPLMGFQLDVSPAPQTERNIPFTHLDNILKSGTVTTGQAPTSGP DAPFTTGVMVFTPGLITLPR\P*PPPDLPPRQATASLLPAPPARDPGGPWGPRQ
8368	38736	A	8425	1	252	

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8369	38737	A	8426	3	1581	ALHCAIRHEDKWPTAVRANGH LLLNEKMSKSTGNFLTLTQAI DKFSADGMRLA\ADAGDTVED ANFVEAMADAGIL\RLYTWE WVKEMVANWDSLRSGPASTFN DRVFASELNAGI\KTDQNYEKM MFKEALKTGFFEFQAAKDKYR ELAVGRDAQ\KLVFRFIEVQTLL LAPFCPHLCEAHLGHSGWKPG LQLWNCFPWACGRVPV*WKFL IHSSQYLMEVTHDLRLRLKNY MMPAKGKKTDKQPLQKPSHCT IYV\AKE\YPPWATLPPCLFLTV KHFEGLTGKTGLDNK\AIASE LGSMPELKLYMKVMPFVAMI KENLEKMGPRILDQLEFDEKA VLMENIVYLTNSLELEHIEVKF ASEAEDKIREDCCPGKPLNVFRI EPGVSRFLVN/RPQPIPMAHFL NPKLEIRQGD\TVIPIIIRLMKM NRGI*RPFPKVKGWRI**SHCW GPRRSSCPWEKEYTREDPPFPE ACLFs/DVDLMSKKIHLTENGIR VDIGDTINLSGSLNSCTLEIYPG FLGILL
8370	38738	A	8427	1	1052	MIKNIGPQYLTPSFLGEQEGDEE EEGHIVDAEAEEGDADASDAK RKEKQEEEVDYESEEEEEERE ENDDEDMQEERNPHRRGARKT QEQQDEEVGL/GH*GGPVPSRPP DAAPETHPQPGAPGA\EAVER VQAVREIHPFIDDYQYD\TEESL WGQVTVKLPLMKINFDMSSLV VSLAHGAVIYATKGITRCLL\NE TTNN\KNEKELVLNTEGINLPEL FKYAEVLDLRLYSNDIHAIAN TYGIEAALRVIEKEIKDVFAYV GIAVDPRHLSLVADYMCFEGV YKPLNRFG\RSNSSPLQQMTFE TSFQFLKQATMLGSHDELSPS ACLVVGKVVRRGGTGLF\ELKQP
8371	38739	C	8428	154	219	
8372	38740	A	8429	1	1584	
8373	38741	A	8430	200	277	

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8374	38742	A	8431	3	877	LYLKVCYI*KELFEFSNLYKQPS GEEVWERILRV*DNGGRNI\KL YQAEFIDLGPVSRDSAFNVAAQ GVKKGSNRLFPWLAEIWIKKW PTVREVEIPDLPLFNVEEGIQKL REIGMG*WISHFRPTHLSWEGP EDIPLTRPSQNIFVRAAPASLKS PVIALLYMSDLMVRTAVTQLQ NLNTMGIIGSQGGRDRVAPLNH QRQSGHGYHNGQQRESGNQNS LTGVELWHWLINHVVSRSNGRK TSLNYKNRESRPLNQFPDLSQF
8375	38743	A	8432	1	282	
8376	38744	A	8433	1	281	SVHTGHHHYHHRHRRHHHHHQ HQLHQHQHQGGGHHHHHHH HHH/HYFQ*ATWEMLLWVGHS HL*RQP*KQHEHRDDVSQAGS VCPCASRGFHIR
8377	38745	A	8434	64	302	
8378	38746	C	8435	133	262	
8379	38747	A	8436	1	1962	MFSIPTGQLRAASGARRHRGR GSIGGPFHAIQGPVETDTAQH ETVAPPDLAHPSPASRGPRPY/G RHLALDEPFLHISGALF*DSLAV *EPPESRLDARPGARNNSSRCPI TA/RPPDTDMGTPSAQGAKSSA\ FAQLPPPNNSTRRAPAGDMPPS MPGATELLACSVPAG*TSELRG GGFASSLGSPCSKGSPASSDA WPRLQPRWPVTFPEAQPLEVPG GTEHG CSPWEPLNSAAQTPFF PPLHPTAPSCPLGLPGSPPGPTSS TGDYIPT*DQSGTSKLYCPLQQ GGAEAAHCV/PA/PEQPETNSKR KGETPTPN/DKEGETPTPNEKKE KHQQQTKRRTNTKRKEGETP TPNEKKEKHQHQTKRRRTNT KRKEGETEPAQGGTNPGRVQQ SPAAL*CFSY*SECQACPSDES AGARFTAGSAPDKGL/PPGPSS WAPSS*HLILATTVHLLVTRPC* PPSCTGPSGHLVVGGRPSAHH HSDLLF**SAGKPDSWPCWTMS AMGILRPRGRASGAPGSATPFP GEFQEAHAPPVQPSTAQSLPAP CLPLGASGGPRQHPPDV\SRGG DRGLQQSVLSDAAP*PGVRGNP PRGARWGARA AWPAGPSAPH PCPQP\PGPRDPLVYPSPGTEAQ MSCLTPQFLQILLCDFE

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8380	38748	A	8437	438	699	LLEGKLTNRKDIHTKTPSVCHH HRGPKVDKTTKGKKQSRKAE NYKNQSASPPPDRSS\YQQRN KAGHRMTLMS*EKKASENQTS PS
8381	38749	A	8438	1	1334	MDGRLYSVTIQPSSVLNLQLLL SGPKSAVLVVTILMCSETNLSF NEFSSESFKTTSPKMSIRKPQEKSADGKQFLQNDRKNPKLGN TLLRNDVSGLLSRTKRNIVPPGWYSVYVTNNYVFKKSPKAKK VSESTTKNDPVKNIHIESSHNIDLNKIAMNSNLQVVVKRLEDTISIAKKSWNNQPLSEGYKASKKLI EIDGKDQHADRNMTLTLNRMTCKEQSLSKSVVASGNIINSHCM PTVDLNNKRLENLKKSSILDGMRLISSVENVPAKYEGTESSVSN YSSPIKLMFLSEVKSSEGVKYTL TSVGTSHSNVVLPSEKPTTHV TEEKETNEDISNANSENHYSS HYDTDTFQRELNKFSHAKETA GSSTMFIGDINSDKPQEEPKD SSATDPSF/NKKTR*TKKNRSPSCETD*ATNWKTTKA*N*SNKH
8382	38750	A	8439	115	523	QFFFSLSQALKLDQAIHISMDAF HSVSELFASQSRRGLDPAMD VLSQGHQTNILDIVHIHKEALT KVTENRQHVAEGKTE/SAEADD VRIT/VNRSFTTSLEIHFHPI*I RDMKSQMHQFLQQEILFFQKSSRN
8383	38751	A	8440	1	461	
8384	38752	A	8441	3	319	
8385	38753	A	8442	112	480	IFSSLNVAYPWIPEKKVDGSKC PIQQQLERKIKNFVLYLK/RLQL TKCEFKN*RLENFIRVNKNEY VCT/SYHTKLLFNNLHMALILIV FKYQSFFSLHSCNQQPHAKVLE PALELQDEDGMVH
8386	38754	A	8443	1	528	

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8387	38755	A	8444	2	811	GIHTRLNSELLKEEESNKRLEAEIEYQSRLTAAISKHSESVKTERNVKLAL*TQDVSVQVKMSSDISEVEDKNEFLTEQLSKKQIKFTLKDKRKKRDTLRKKSLAETVHNLLSQTQQQIKEMKEMYENAEAKENNSTGKWSCVEERICQLQHENPCIEQQQLDDVHQKECLPSRKEFKFSEPPAFLSGNQVKSSCSLQTLFPDDRLLYLLENPKDSTKKLLELINKFRVTGYKIKLQKSVAFLNDKNEQSKEENQECNPIY
8388	38756	B	8445	1	1581	
8389	38757	A	8446	617	2972	EQNKPYQWLQRKNSKRERSEKKQPQVKEGNNTNKSEKIQLSENICDSTSAAAGRLTQQRKIGKTYPQQFPKKLKEEHDRCTLKQENEEKTNVNMLYKKNREELERKEKQYKKEVEAKQLEPTLQSLEMKSKTARNTPNRDFHNHEEMKGIMDENCILKADIAILRQEICTMKNDNLEKENKYLKDIKIVKETNAALEKYIKLNEEMITETAFRYQQELNDLKAENTRLNAELLKEKEKKRLEADIESYQSRЛААISKHSESVKTERNLKALERTRDVSVQVEMSSAISKVKVKAENEFLTEQLSETQIKFNTLKDKFRKTRDSLRKKS LAETVQNDLTQTQQQTQEMKEMYQNAEAKVNNSTGKWNCVEERICHL\QRENTPWLVQQ\LDVHQKEDHKE\K*LISQRGFIESGKKDLVLEEKSKKLTNECDHLKESLFQYEREKTEGVPKKENEELRKLFELISSLKYNVNRIRKKNDEEEEATGYKKLLEMTINMLNVFGNEDFDCHGDLKTDQLKMDILIKKLQKFDDLTAEKEALSSKCVNLAKDNQVLQQEFLSMKKVQQQCEKLEEDKKMLKEEILNLKTHMENNVRVELSKLQEYKLELDEKAMQAVERKLEEIHLQEQAQYEKQLEQ/FKQGYNTASLNKKELTLKDVECKFYKMKTAYEEVTTELEYKEAFAALKANSS

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8390	38758	A	8447	1	2794	AVYLSRGCVCCIRCISLLKEPH EEGVMCSFRSVATQKNDIRPDF QLGKMDSKIKELEPQLTILYQN PKTLKFQGKKSVKFALSPSMAL RK*PFKMFSI*SIFIALQFLHGYY KPILFEPNQTWPGHVAVWQDT CSIVAI/SANITQKVHPVI/W/SSIP PYGVALSSLTGTAAFPQLCTQL GV*IPLDCAQATFISHDKMVISL KGYLFLSSCLGNSSLKYTEKL QEPPASAICEAADKEEPPSQKK RVDT/S
8391	38759	A	8448	184	427	WAIAIQRHVYDQE\WQIADPC NM**VENAETLPPGPFLNISLES SARRRATSRRDNRRFRPHRSRR SRRSRSDNALHLASE
8392	38760	A	8449	1	903	MAQKFMAPNRARTLRDICTDR EA\YPVQESMGSGTRGQRKEDM GGAALSTGEGGARDVKAPLPE ATLCSQMGPGRPSGSLCDLAG STLAGRWMHQSDFDGGMEAS KLPGQEGVRIQPMSERTRRRAT SRDDNRRFRPHRSRRSRSRSD FSLHLASEREAIISRLKD\RPPLRA REDYDQFMRQRSFQESMGHGS RRDLYGQCPTVSDLALQNAF GDRWGPYFAEYDW\WCSTCSSS ESDNEGYFLGEPIPQP\PARLRYV TSD\DCCTNTAPTASP\NLPH*VA EDSCTAGKDQRAKTCIISLY
8393	38761	B	8450	1	322	

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8394	38762	A	8451	1	2460	MEEKSKRRGVLWSLLILALKFG DEPPLGSPNSCKYKLTLKELG WREVFSSLQFCLCTSVASQMLS QYFEYTQPHPGDICHPETCALQ KVFLTSSGQSSSTSSSSQQFVLQ INAIQTILEKTPTHISTPTPTPTLA NPTAVGLEEDREQDVGTSSRG GAWDTRIKRELEKMSEKCGGQ INGGDIAVFASRAGHGVCHPP CFVCTVCNELLVDLIYFYQDGK IYCGRHHAECLKPRCAACDEIIF ADECTEAEGRHWHMKGHCFCFE CETVLGGQRYIMKEGRPYCCH CFESLYAEYCDTCAQHIGEAIF GSQ/HWSFC/RCGHLCFGEWG* PQLLWMLC*LELTKGPRDAIMS SLHSWHLRKGVRRRRRKEDK SPEVLP*KSISSGTLSH*R*RPH* SLFLGSRVSL\PSGECRGPGPPYS HSLRLYSQQALPTGRGPSSSQFP FCQFYCCYKKSLCDCLSKSPA LEKAMRGIDQQQMTYDGQHW HATETCFCCAHCCKSLLGRPFL PKQQIFCSRACSAGEDPNGSD SSDSAFAQNARAKESRRSAKIGK NKGKTEEPMLNQHSQQLVSSN RLSADVDPPLSLQMDMLSLSQT PSLNRDPIWRSREEPYHYGNKM EQNQTQSPLQLLSQCNIRTSYSP GGQQAGAQPEMWGKHFNSNPK RSSSLAMTGHAGSFIKECREDY YPGRLRSQESYSDMSSQSFSET
8395	38763	A	8452	2	942	NKNPKNHYPESYVSLKNDFTK LTSRRHRGVEQALVQLCHVFV CEHGHVIVTSSGFIVYRTRAN YSSSAQGVGIAAAALDAVLIRA HQRTQGCHHELSALLAFEKGSE KKEEEEQQGVSRSSSLKVQAQE LSATEDKGHISPFFWEAVYHYA SGECRGPGPPYSHSLRLYSQQA LPTGRGPSSSQFPFCQFYCCYK KSLLCDCLSKSPA LEKAMRGID QQQMTYDGQHWHATETCFCC AHCKKSLLGRPFLPKQGQIFCS RACSAGEDPNGSDSSDAFQNA RAKESRRSAKIGKNKGKTEEP C*TSTASCK

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8396	38764	A	8453	1	937	VHQYYSLPEEKVPYVNSPGEK LRIKQLLHQLPPHDNEVRYCNS LDEEEKRELKLFSQRKRENLG RGNVRPFPTMTGAICEQC GG QINGGDIAVFASRAGHGVCWH PPCFVCTVCNELLVDLIYFYQD GKIYCGRHAECLKPRCAACD EIIFADECTEAEGRHWHMKHFC CFECETVLGGQRYIMKEGRPYC CHCFESLYAEYCDTCAQHIGID QGQM TYDGQHWHATETCFCC AHCKSLLGRPFLPKQQIFCS RACSAGEDPNGSDSSDSAFQNA RAKESRRSAKIGKNKGKTEEP\
8397	38765	B	8454	214	551	
8398	38766	A	8455	1	1140	
8399	38767	A	8456	1	2525	MLNIQSVPFIGQGHYSRYLSN PMHSGDFISNIHMRKPKFREIIF ADECTEAEGRHWHMKHFCCE CETVLGGQRYIMKEGRPYCCH CFESLYAEYCDTCAQHIGEAIF GSQ/HWSFC/RCGHLCFGEWG* PQLLWMLC*LELTKGPRDAIMS SLHSWHLRKGVRRRRKKEDK SPEVLP*K\\$SSGTL SH*R*RPH* SLFLGSRVSL\PSGECRGPGPPYS HSLRLYSQQALPTGRGPSSSQFP FCQFYCCYKSLLCDCLSKSPA LEKAMRGIDQQQM TYDGQHW HATETCFCCAHC KKSLLGRPFL PKQQIFCSRACSAGEDPNGSD SSDSAFQNARAKESRRSAKIGK NKKGKTEEPMLNQHSQLQVSSN RLSADVDPLSLQMDMLSLSQT PSLN RDPIWRSREEPYHYGNKM EQNQTQSPLQLLSQC NIRT SYSP GGQGAGAQPEMWGKHFSNPK RSSSLAMTGHAGSFIKECREDY YPGRLRSQESYSDMSSQSFSET RGSIQVPKYEEEEEEEGGLSTQ QCRTRHPISSLKYTEDMTPTEQ TPRGSMESLALS NATE NQDDCS FVNRLKGSNNRPGRRQELMVT WNFIQERNNGSGMDQ CDDGGG KILD PVYILTVELTGFAKGWKM FSVKDQSVNV LGFAGCLSADG GAKRQEHL SRFSMPDLSKD SG MN VSEKLSNM GTLNSSMQFRS

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8400	38768	A	8457	7	302	PLPSSPEQPAGRKGT\GLPCALT EIYFRVTIYFYVEIEKLLIIVAK QEGLSGN\HKP\VERKYMTYLS AQD\HELIQVVQNGHLQMCGK SETGNEASPVS
8401	38769	A	8458	1	241	MTYLSAQDHELIQVVQNGHLQ MCGKSETGNEASP/G*GRGVNP WP/RHARSRMRALTRSSASCCR CSGASSICTGTSLSTGG
8402	38770	A	8459	31	454	QRSAWRSQIWSASRSV*SVFVR RASSRCLRNTGSGPGHPDR*DC RT/ARRCGWTRRRMASPSAAC GRSRCCSACVI/LNIVELKEVVV GNHLESIFLVMGYCEQDLASLL ENMPTPFSEAQVKCIVLQVLRG LQYLHRNFIIR
8403	38771	A	8460	1	914	SYHHLRHHHHHLPHHCF/HHN NHYHHYHHYHHHHCHHYH YHHLHHHHHHHHHHHDHCYYH NNNNNCHHHHHHYHHHH*Y HHYHPHHHHHHHYHHHHYHH HHHHHHHHRHRYHHYHHHHHQHH HYHHLHHHHYHHYHYHNNY\HR HHRYSNNNNHYHHHHPHHY HHHHC*HHHYLYHHHHHNH HHHYHHHHHYHYHYHYH/HHH HHHHHHHYHHYCHDHNYHYH HHHHHYH/AHFHHHYHYHYHYH HHHHRHHHHHLHHHYCHRPHH YHYLSCCETSHTLFPQNAISSFD CKYLDGQDDDEDFVVYKLCTLY
8404	38772	A	8461	102	420	DTGPGEAGGC GG\GVGEGV AAPAAPGHS*VG/GNQPYLSPV CSRGP GTGRAAARGL SGCWP WWSPRSGSAPSQCSSASWSAW SAGAPRFAPSAPGHPEGRRCPA
8405	38773	B	8462	121	215	

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8406	38774	A	8463	44	1584	AVLDRGPRVGSSSPGGMSTC LSSPLFATAAELGG\GLCSAGR GPRRKVYLSVDEKKLRCCQPKS GRSVAERAAGHISAEGWRPVH VGPGLLGLAL*GP*AWGFQGR KGGI*KGAYTAKCMMGSDKAQ ASGIATGGGHSGAEAVG/PQQ/ QGTVLSEFGGGGLSFRRMPGSL \GPSVPCKCGHPGPRCPH EGTDTVATVAAT/GPPLAPSHG TSWQSGSLQ*DTGPGE AAAVVGVGE AELPAAPGHS*VG VISHICHPFVAGGSPGTGRAAA RGLSGCWPWWSPRS GSAPSQC SSASWSAWSAGAPR SAPSAPGH PEGRRCPA*GWN NPQGS KSSLKS SELW TPIPYV PYAVP*HTCGY AGP APV QT PCRGG WNGAQVGL DP VGGHGDGT PHGS/APRLPGRV GGAP*AA AA VAA ISTDPP ATASLG PAP GGP ACCP SL*AC PASSASP APAR SSW P P A SC GS AAP WW HQ TGH GSL WWPEH S CRL SHRS PS PG APC WP FP FR ASP DRG TA
8407	38775	A	8464	1	541	MKSLEEKIGCLLKFLGDLDDQT CKEDLHILFSNHGEIKWIDFIRG AKEGIILFKEKAKETLGKAKDA NNGNLQLRSKEVTWEVLEGEL EKEALKKITEDQQESLNWKWS KGCRFKGKRKGSKAAQPGSGK GKVQFQDKTKFASDDAHDEN GSTGP\IKRGREETDKE*PASKQ PKTENA

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8408	38776	A	8465	1	1326	PAALGGGVAVAVCEPVARLL WAGTLKIAVMAENGDNEKMA ALEAKICHQIEYYFGDFNLPRD KFLKEQIKLDEGWVPLEIMIKF NRLNRLTTDFNVIVEALSKSA ELMEISEDKTKIRRSPSKPLPEV TDEYKNDVKNRSVYIKGPTD ATLDDIKEWLEDKGQVLNIQM RRTLHKAFKGSIFVVFDIESAK KFVETPGQKYKETDLLILFKDD YFAKKNEERKQNKVEAKLRAK QEAEAKQKLEEDAEMKSLEEKI GCLLKFGSGDLDQTCREDLHIL FSNHGEIKWIDFVRGAKEGIILF KEKAKEALGKAKDANNGNLQ LRNKEV\TWEVLEGEVEKEAL KKIIEDQQES\LNKWKSKGRRF KGKGKGNKSCPSPGSGKGKVQ FQGKKTGFASDDEHDEHDENG ATGPVKRAREETDKEEPASKQ QKTENGAGDQ
8409	38777	A	8466	2	331	CSTSLMIREMQVKTTMRYHLTP ARMAIIKKSRPGVCGPQFTASY CSSWNRGLSRAMAQSLTPRPLS TLQ/PLLA VDRGS/PVLGASHRL PAQC/CMTDSSSTLGSAGSW QQ
8410	38778	A	8467	1	209	MNSHFLKEDIQMANKHMEKCS \PLLMIREMQIKPTVRYHTLSAR MPIIKKSK\NSRCWHGCGEHGT LLHC
8411	38779	A	8468	2	370	CSTSLIIREMQIETTMRYHLIPA RMAIIKK\SRCWQGCGEQETLL HSWKPQP/LWRSSSGTARERQF LHPLLLKARIEITPPESLAVLKIP MEGTWMELEAVILSKLTQKQK TKH*MLSLTSGS
8412	38780	A	8469	2	194	CSTSLMIREMQIKTTVRYRLTS ARMAIIKKSK\NSRCWHGCGEH RTLLHCCNLWKERNVSYVSA
8413	38781	A	8470	341	496	

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8414	38782	A	8471	46	711	SLIHLELIFCIGLDVRLGKDFMT NNLKGNAIKTKINFWDLILKLN FCKAKRNSQRANR*QTEWEKT FIICTSDKGLTSRIYNKLKQISKK KTNNPIIKWAKDMNRQFSKEDI QMANKHMKKCSTSLMIREMQI KTTVRYHLLTSARMAIIKKSK\NS RCWHGCHEGTLLHCWK/SKS LYEKDTCTRMFIAAQLAIAKTW NQPKGPSINAWIKDWCQSCTN HNK
8415	38783	B	8472	36	1199	
8416	38784	A	8473	3	184	FFFFFLRRSL/DSVAQAGVQWR DLSSLQAPPPGFTPFSCLSLSS WDYRRLPPR PANFLYF**RRGF TMLARMVSIS*PRDPLASASQS AGIQKNSFFFLETRVSAFVAQA GVQWCDLGSPQPPPGFK*FSC LSLLSSWDYRRLPPR PANFLYF
8417	38785	A	8474	3	295	AAAFFVFFETEFRSVAQAGVQ WRDLDLSLQAPPPGFTPFSCLSLP CSWDYRRVPPCPANFCIFS RDG VSPC*PGWSRSPDLVIHPSRPPK VLGLQAMS
8418	38786	A	8475	1501	1879	IRNTHAKIELCLLPLFTEL*CNF FFFFLRRSL/DSVAQAGVQWRY LGSLQAPPPGFTPFSCLSLSSW GYRRLPPCPA/NFFVFLV\ERGFT VLARMVLMS*PRDPPASASQSA GITGVSHHARPTLK
8419	38787	A	8476	1550	2469	FFPFFFFLRRSSPLPPRLQCSMI LAYCNLRLGGSSNSVASASGVA GITGTCHHTQ*IFVFLVETGFHH VGQAGLEFLTSGDLPTSASQSA/ RDYRRDDHTRPEKCF/C*KTHIL WHSPSWSS/EERGSQFFSQDS*K SSRYPKKLLGMWVIAINIYGTR T*K*EKFKTREYIGTHSIHRGNH GVNTYHVASEKLH/*TYRMK KAKNFFFFFLRRELASVAQAG VQWRDLGSLQSPPP GFTPFSCL ASLRSWDYR/RVLPPLCLANFL YFFS/MRRGFTVFSR\ MVSIS*PR DQ\PASASQ\SAGITGVSHRAR\L KJIFLFFFSETESRSVAQAGVQ WHDLGSRHRPPPGFTPFSCLSFP SSWDYRGPPR PANFCVFSRD GVSPC*PGWSRSPDLVIRPASAS QKCWDYRREPPRPA
8420	38788	A	8477	1	2268	

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8421	38789	A	8478	1	2312	MAGPPSGPGRPEVCGAGRTRV AKARFRRRAFASLGWSSGRE VVTFGDVAVHFSREEWQCLDP GQRALYREVMLENHSSVAGIG EDAPWGPFPCIISQHPPSQASIR GPCVYTVADVPVTGIAVIPPAA VCFSRLKDCCDTRTEDKEFLHKE DIHEDLESQAEISENYAGDVSQ VPELGDLCDVSDERDWGVPEG RRLPQSLSQEGDFTPAAMGLLR GPLGEKDLDCNGFDSRFSLSPN LMACQEIPTEERPHPYDMGGQS FQHSVDLTGHEGVPTAESPLIC NECGKTFQGNPVTLSVKQSHT GEA\SFMCDDCGKTFSQNSVLK NRHRSHMSEKAYQCSECGKAF RGHSDFSRHQSIIHSSERPYN ECGKAQFSQNSLKKHQKV\HMS EKPYECNECGKAFRA\SSNLIQH QRIHSGEK\PYVCSECGKAFRRS SNLIKHHRTHTGEKPFEKG*CG KAFSQSAHLRKHQRVHTGEKP YECDNCGKPSRVSNLIKHHRV HTGEKP*KSSACGKAFSQSSLI QHRIHTG\EKPHVCNVCGK\AF SY*LQCSESTRFIHTGRGRPYRC SVCGKAQFSHSSALIQHQGVHTG DKPYACHECGKTFGRSSNLILH QRVHTGEKPYECTECGKTFSQS STLIQHQRIHNGAEAP/YKCNQC GKAF\QSSKFSIHPQKVHIGEK\ PSPCVECGKGFSQSSHFFQH\RY
8422	38790	C	8479	194	458	
8423	38791	C	8480	214	378	
8424	38792	A	8481	107	345	GPLTCRYWEIHSQEPPRSLE MVLFSPSQN*SPVWSKEKNL*P *RDMR*/YAKPPGRCK*K*IQQ MTQMRGRNIQEKASP

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8425	38793	A	8482	1	1454	MHEEEGESGDSR VYMSTQCTH VTLNKFLGFIVSESVSGLNIQES MKEVLRGQSLKHNPIREAGLET LQSGRQLERRGRRLSGMARPLSL AAAGAPDLLFTALCSLLIEAQP LRPFDLQTTLTAAECHYTGKKF SLNEGKPVLRKNSQTNTWEPG TIITWGRGYACVSPGDQSPVVW PTERLKLRVNSDKESHREKTSK SETAFIPAQDLAYNRFYLIILLT LSVSPVSPQTDLPAT*NSYWA YVPFPPLIRPLTWMDAPAEIYT NDSVYMPGATDDHCPTPRREE GTAFNVTMGYKYPPLCLGHAH VDGCIHLQAQIWAAYLPERLAT REQGHLISSLSPLRQMKGGV GDTPNFQYKPVGKPCPKNFEGP SKILIWEDCVNSHV VVLKND YGLVIGWAPKGYFK\NNCSSGG RECLEATYFISHWEDKDHHPTL HRRVSSFFPL*WEDKGITPPRPH MIFPILSLEHSELWKLA\AMSGL
8426	38794	A	8483	49	1393	AEPAPTHLPPPSTAPQPERNSC CISQQSFVVP*S/SPDSDRPRGRH /SPPP/SPPCPCLPPPSTTAM PTRQCPCPPPIPTVAAPPLPPSHF LRTLPAAPPTQPPPPLSH/TTHPP EQRTLGPKFRLFSTPSPKNLEYL MNKSGRSPGCLLREATGTADL ARSIASLTAPQTDASGISGGRST LRQTRCSSGRLRTHPRLSMRAS LPLRPRRACLPQCRDKELLITK RKYRKKKDFAAGLEDVTEFQG REENPRHTFIYSLPLGLQKHQV LTVDIGFGGTAIMTGIARVPLA GAAGGPGVGRAAGRGPAGVP IPQAPAGLAGPVRGVGGPSQQV MTPQGRGTVA AAAVAATASIM APPPGMRPPMGPPIGLPPARGTP IGMPPPGMRPPPGIRDCGGSLT PLGDVCLK GSLARVLCRAIVQI YSICVLLTTSEQQLSIRIHPQNA V

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8427	38795	A	8484	49	752	AEPAPTHLPPPSTAPQPERNSC CISQQSFSVPS/SPDSDRPRGRH /SPPP/SPCPPPPCLPPPSTTAM PTRCQCPPPPIPTVAAPLPPSHF LRTLPAAPRPTQPPPPLSH/TTHPP EQRTLGPKFRLFSTPSPKNLEYL MNKSGRSPGCLLREATGTADL ARSIASLTAPQTDASGISGGRST LRQTRCSSGRLRTHPRLSMRAS LPLRPRRRACLPQCRDKELLITK RKYRKKKD
8428	38796	B	8485	511	1349	
8429	38797	A	8486	3	431	ADAVGGPGPGMAGCDGLPG GFGSDIRPRLWLWLGPRLWSS* RGTVNIILASVPKKLLM/DCYA LARDRTATLG\TFDAISKTA WIPDLWKETVFTKFPYQEFTDH L/VKTHTRVSQKQTQVPAVATT AARQTMEGQAPVEYI
8430	38798	A	8487	1	470	
8431	38799	A	8488	3	314	
8432	38800	A	8489	1	458	
8433	38801	A	8490	1	855	PTRPLVLRVGATARALPRPSRS CSPSAVVP SAPSSCPPQPR\ RTPK PEPEPEQVIK NYTEELKVPPDED CII\ SMEKLSTASGYSDVTDSKAI GSLAVGHLTKCSHAFHLLCLLA MYCNGNKDGSLQCPSCKTIYG EKTGTQPQGKMEVLRFQMSLP GHEDCGTILIVYSIPP\GIQGP\EH PNPGKAVSLPEGFPAQCYLPEQ RPGPAKSLRAP*RRAWK\RRLI FTVGHVPAPTGETDTVWWNEIV HHKTEMDRNITGHGYPDPNYL QNVLAELAAQGVTEDCLEQQ
8434	38802	A	8491	1	3797	MEYYAAIENDEFMSFVGTWMK LEIIILSKLSQE QKTKHRMFLSID FGFSNLFTPQQLKTWCGSPPY AAPELFEGKEYDGPVKDIWSLG VVLYVLVCGALPFDGSTLQNL RARVLSGKFRIPFFMSTGLVPEL DKRLKAGCLSLIAECEHLIRHML VLDPNKRLSMEQICKHKWMKL GDADPNFDRLIAECQQLKEERQ VDPLNEDVLLAMEDMGLDKEQ TLQSLRS DAYDHYS AY SLLCD RHKRHKTLRLGALP

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8435	38803	A	8492	1	2563	MGDFNTPLSTVDRSMRQKVDK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDNIIG SKALLSKCKGTEIITNSLSDHSA IKLELRKKLTQNHSTTEKLNNL LLNDYWVHNEMKAEIKMFSET NENKDPTYQLNLWDTFKAVCRG KFIALNAHKRKQERSKIDTLS QLKELEKLQNQEEVESLNRPITG AEIVAIINSLPTKKSPGPDGFTA KFYWRYKEELVPFLLKLFQSIE KEGILPNSCYEASIILIPKGRTDT TKKENFRPISLMNIDAKILNKIL ANRIQQHIKKLIHHHDQVGFI PG MQGWFNICKSINVIQHINRTKD KNHMIISIDA EKA FDKI IQQP FML KTLNKLAQNLKLISN/SQQSLR IQNQCTKITSILIHQ*QTNREPNH E*TPIHNCFKENKIPRNPTYKGC EGPLQGELQTTAQGNKRGYKQ MEEHSMGLMRKNQYLENGHT AQGNL*I/QMPSPSSY**LSSQN WKLLL*SSYGTKK\GPHSQVNP KPKEQSWRHHTT*LQTILQGYS NQNSMVLAPKQR*RPMEQNRA LRNNAAYLQLSDL*QT*QKQA MGNGFPI**MVLGKLASHMEK AETGSLPYTLYKN*FKMD*RLT H*S*NHKNP RRKPRQYHSVHRH GQGLHV*NTKSNGNKSQN*RM GSN*TKELLHSERNYHQSEQAT HKMGENFRNLLI*QRANIQNLQ

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8436	38804	A	8493	1	1839	M P R A L A F Q A P V N I Q A E Q A G T A M N I S V P Q V Q L I N P E N Q I V E A S S N L W E L S A E T T F A I S L L P F L L I S N S M P D G T L N L D S D E G E E P S P E A L V R Y L S M R R H T V G V A D P R T E V M E D L Q K L L P G F P G V N P Q A P F L Q V A P N V N F M H N L L P M Q N L Q P T G Q L E Y K M S G L P L S P R L P L I S W S V L P T L F L A \ E Q S L L Q P P T L Q L L N G M G P L G R R A S D G G A N I Q L H A Q Q L L K / R P R G P S P L V T M T P A V P A V T P V D E E S S D G E P D Q E A V Q R Y L A N R S K R H T L A M T N P T A E I P P D L Q R Q L G Q Q P F R S R V W P P H L V P D Q H R S T Y K D S N T L H L P T E R F S P V R R F S D G A A S I Q A F K A H L E K M G N N S S I K Q L Q E C E Q L Q K M Y G G Q I D E R T L E K T Q Q Q H M L Y Q Q E Q H H Q I L Q Q Q I Q Q Q P A Q S Q Q V T I Q V Q E P V D M L S N M P G T A A G S S G R G I S I S P A G Q M Q M Q H R T N L M A T L S Y G H R P L S K Q L S A D S A E A H R L K W E T R E K G L E D D S S V S S N T G G D V T N E G K S T E S A D F G F S N L F T P G Q L L K T W C G S P P Y A A P E L F E G K E Y D G P K V D I W S L G V V L Y V L V C G A L P F D G S T L Q N L R A R V L S G K F R I P F F M S T G Y F H L L G S H C N V V L N A K D K V G F
8437	38805	B	8494	1	3879	
8438	38806	A	8495	1	4065	M G K K Q S R K T G N S K K Q S A P P P K K R S S S P A T E Q S W T E N D F D E L R E E G F R R S N Y S E L R E E I Q T K G K E V E N Y E K S L E C I T R I T N T E N C L K E L M E P K T K A R E L R K E C R S L R S R C Y Q L V E R V S A M E D E V N E M K D T H R L K V K G W R K I Y Q G N G K Q K K A G V A I L V S D K T D F K P T K I K R D K E G H Y M M V K G S I Q Q E E L T I L N I Y A P N T G A P R F I K Q V L S D L Q R D L D S H T L I M G D F N T P L S T L D R S T R Q K V N N N T Q E L N S A L H Q A
8439	38807	A	8496	1490	1813	T G N L Q N G R K F L Q P T H L T K G * Y P E S M M N S N K F T R K K Q T T P S K S G R R T * T D T S Q K K T F M Q P K N T * K N A H H H W P S E K C K S K P L * D T I S H Q L E W Q S L K S Q E T T G A G E D V D K

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8440	38808	A	8497	1614	3085	AGEGNKADKQLQQSLRIQNQC TKITSILIHQQQTNRREPNEHSTPI HNCFKENKIPRNPTYKGCEGPL QGELQTTAQGNKRGYKQMEE HSMLMGRKNQYHENGTAAQG NLQI/QMPSPSSYQ*LSSQNWK LLSSSYGTKK\GLHHQVNPKPK EQSWRHAT*LQTILQGYSNQN SMVLVPKQRYRSMEQNRALRN NAAYLQLSDL*QT*EKQAMGK GFPI**MVLGKLASHM*KAETG SLPYTLYKNQFKMD*RFKR*T* NHKNPRRKPRHYHSGHRHGQQ L/LCPKHQKQW/HTKAKIDKWD LIKLIELLHSKRNYHQSEQATY KMGGENFRNLLI*QRANIQNLQ* TQTNLQEKNKQPHQKVGECH QTLLKRRHLCSQETHEKMLIIT GHQRNANQNHNEIPSHTS*NGN /QLKSQETTGAGEDVEK*EHFY TVGGTVN*FNHCGSQCGDSSGI *N*KYHLTQPSHYWVYTQRTIN HAAIKTHAHVCLLRHYSQ

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8441	38809	A	8498	2	2013	LNQEEVESLNRPITGAEIVAIINS LPTKKSPGPDGFTAKFYWRYK EELVPFLLKLFQSIEKEGILPNSC YEASHIILIPKPGRDTTKENFRPI SLMNIDAKILNKILANRIQQHIK KLHHDQVGFIPGMQGWFNICK SINVIQHINRTKDKNHMIISDAE KAFDKIQQQPFMLKTLNKLAQN LLKLISN/SQQSLRIQNQCTKITS ILIHQ*QTNRREPNE*TPIHNCFK ENKIPRNPTYKGCEGPLQGELQ TTAQGNKRGYKQMEEHSMLM GRKNQYLENGHTAQGNL*I/QM PSPSSY**LSSQNWKLL*SSYG TKK\GPHSQVNPKPKEQSWRHH TT*LQTILQGYSNQNSMVLAPK QR*RPMEQNRALRNNAAYLQL SDL*QT*QKQAMGNGFPI**MV LGKLASHMKAETGSLPYTLY KN*FKMD*RLTH*S*NHKNPRR KPRQYHSVHRHGQGLHV*NTK SNGNKSQN*RMGSN*TKELLHS ERNYHQSEQATHKMGGENFRNL LI*QRANIQNLQ*TQTNLQEKN KQPHQKMGKGHEQTLKRRHL CSQKTHEKMLIITGHQRNANQN HNEIPSHTSQNGD/QLKSQETTG AGEDVEK*EHFYTVGGTVN*FN HCGSQCGDSSGI*N*KYHLTQP SHYWVYTQRTINHAATKTHAH VCLLRHYSQ
8442	38810	B	8499	1	2860	

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8443	38811	A	8500	3	2202	EGRNKDVI*NQREQRHNIPESL GHIQSSV*REI*NTKCPQEKGK IQN*HPNITIKRTRKARANTFKS *QKARNN*NQSRIEGNRDTKNP SKN**IQTTIREYYKHLHANNLE NLEEMDKFLDTYTLPRLNQEEV ESLNRPITGSEIVAIINSLPTKKS PGPDGFTAKFYQRYKEELRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNWKWNIPCSWVGRINI VKMAILPKVIYRFNGIPIKLPITF FTELEKTLKFIWNQKRARVAK SILSQKNKAGGIMLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEPSEIMPHIYNYLIFDKPEKN KQWGKDSLFNKWCWENWLAI CRKLKMDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGNTIQDI GMGKDFMSKTPKAMATKAKID KWDLIKLKSFCATAKETTIGVNR QPTKWEKIFATYSSDKGLIFRIY NELKQIYKKKTNNPIKKWAKD MNRQFSKEDIYAAKRHMKKCS TSLAIREMQIKTTMRYHLPVR TAIIKKSGNNRCWRGCGEIGTL LHCCWDCKLVQPLWKSIVWRF LRDLELEIPFDPAIPLLGIYPKDY KSCCYKDTCTRMFTAALLTIAK TWNQPKCPTMIDWIKKMWHIY TMESYAAIKNDEFMSFVGWTWM KLEIIILSKLSQGQKTKQRIFSLI DGN

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8444	38812	A	8501	437	2163	KQKCNISHLWNAVVKVERIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNWKWNIPCSWVEESIP*K WPYCPR*FTDSMPSPSSYQ*LSS QNWKLL*SSYGTKEPASPSQ S*AKRTKLEASHYLTNSYSTR Q*PPGKRGPPEVQGHNADENN HTEDRQGNRRHEHSIDQLAVT DVHSTTAEYTFLSTRGGFSKID HMLGCKTNLNKYKEIEIIQSIFS NHNEIKQEINSRRKTRKSTNLW ELSSALLMNGSEKKTQVNLDNI WKLMKAKMQHITLMECSESRK NKIPRNPTYKGREGPLQGELQT TAQGNKRGYKQMEEHPMLMG GRINTVKMAILPKVIYRFNAIPI KLPMTFFTELEKTTLKFIWNQK RARIAKSILSQKNKAGGLTLPD FKLFYKATVTKTAWYWYQNR DIDQWNRTEPSEIMPHIYNVIF DKPEKNQWGKDLSFNWKCW ENWLAICRKLKLDPLTPYTKI NSRWIKDLTVRPKTIKTLEENL GITIQDIGMKDFMSKTPKAMA TKAKIDKWDLIKLKSFTGKET TIRVNRQPTKWKKIFATYSSDK GLISRIYNELKQIYKKKTNNP KWWKDMNRHFSKEDIYAAKK HMKKCSPSLAVREMQIKTTMR YHLTPVRMAIKSGNRCWR GCGEIGTLLHCWWDCKLVQPL WKSvwQFLRDLEIPFDPAIPL
8445	38813	A	8502	1	2001	MPHIQVMLMQEMDSHSLGKLC PYGFAEYSPTSSCFHGFVLSVC GSSRDKATQRVDALVRQVIVN GGIVLDQFAVHDRVALADLIDL LVDSLAMMLCGVPTTGDPFVA FALGHPDDFDHLILPKHLVDRY LLEPLLGPVQLLSHSASVHLD LHQFCSDFSYGIQLTRDVKDLF KENYKPLLKEIKEDTNWKWNIP CSWVGRINIMKMAKRPR*FID SMPSMPSSYQ*LSSQNWKLL*SS YGTKEPVSPSQALA
8446	38814	B	8503	152	3166	

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8447	38815	A	8504	15	2745	HPTVNIRQ\INETESQQGYPGIEL SSAPSGPNRHLQNSP/PPNQQNI HFFQHHTTPKLT*LSTLDRS TRQKVNKDTQELNSALHQADL IDIYRTLHPKSTEYTFFSAPHHT YSKIDHIVGSKALLSKCKRTEII TNYLSDHSAIKLELRINKNLTQSH STTWKLNNLLNDYWVHNEM KSEIKMFFETNENKDPTYQNL WDAFKAVCRGKFIALNAHKRK QERSKIDTLTSQLKELEKQEQT HSKASRRQEITK
8448	38816	A	8505	2853	3925	AVGPSVRTPRPYLCVRKDVKD VVPILRPSATSLFMPRAAGQGG QKAGGTEKSSGP*KDDV*RLQP PNGFRIIH*VQ*TCRKGCPLHLSK RNTFQFQN*R*NLLYPALPNIPH SSVEEGVGSI*ARSEDLEGAQLP *LLARLFTCRSNTYRGLKFTEA* GGE*QSICYSTRRANYPKY/HM HPIQEDPDS*SKS*VTYKET*TP TQ**WETLT/PPLSTLDRSTRQK VNKDTQELNSALHQADLID\TT ELSTPNQKNLHFFQHHTTPKLT TTYLEVKL\PQQM*KNRNYNKL SLRPQCNRQRTQD*ETHSKLLN YMETEQPAPE*LLGT*RNESRN KDVL*NQREQRHNIPESLGHIQS SV
8449	38817	A	8506	2	376	IPYLP*STYMETGMIYVVQGIY GYHHYMQDRIDDNGWGCAYR SLQTICSWFKHQGYTERSIPTHRE EIQQALVDAGDKPATFVGSRQ WIGSIEVQLVLNQLIGITSKILFV SNTRKNKKVGNIVS
8450	38818	A	8507	1	1008	
8451	38819	A	8508	218	343	
8452	38820	B	8509	306	1434	
8453	38821	A	8510	3	659	

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8454	38822	A	8511	3	1990	EPHRIASPRFRQAFDSDGTDRTL *FLSDIEEEELTRGDPEQRHVPL RRKSEWKWAADRAAIDSRW WLQAHVSDEYRIRQQTDIYK QIRANKGLIGLGEVPPP\EHTTD LFLPLSSEVKTDHGTDKLIESVS QPLENHGAPIIG\HISESLSTKSC GALRPVNGVINTLQPVLADHIP\GDCSDAEEQLHKKQRLNLVSSS SDGTCVAARTRPVLSCKKRRLV RPNSIVPLSKVHRNSTIRPGCD VNPSICALCGSGSINTMPPEIHYE APLLERLSQLDSCVHPVLA DVTSLHFQSMLKSQWQNKP DKIKPPKKL DSARKDRHKLVSSFLTTAKLSH HQTRPDRTHRQHLDVGAVPM VERVTAPKAERLLN NHSKMRLRDHSSERSEVLKHH TDMSSSYLAATHHPPHSPLVR QLSTSSDSPA QQPVRRRRGE VAATT VDLQSLKG SSHSLS VAAPL SAPL STPELGLD AHSPQA TRRTSGSKTG PLKS ADDRDHLHIQT PGSSWLSTKG PPLRQPA LGSPGHS PRRQP ESQTVLP SASAPSPT LRGSGAGGG PRARL PGAGT MRMCLRLPTL GHLCRPT TA AAPRG SLGIL RIKERGS
8455	38823	A	8512	119	739	HQIQTWCAKAPVFLQ PGSSWLSTKGKKM/PETPASDE PPLRQPAVRF LGSPGHS*GPSSDTGQPAAGR PRRQP*AAV ESQTVLP SASAPSPT LRGSGAGGG PRARL PGAGT ADDRDHL PGSSWLST PPLRQPA LGSPGHS PRRQP ESQTVLP SASAPSPT LRGSGAGGG PRARL PGAGT MRMCLRLPTL GHLCRPT TA AAPRG SLGIL RIKERGS
8456	38824	A	8513	1	343	MTKCTNWHVT MREPTPEP/WTGD AAPRGA SLGIL RIKERGS

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8457	38825	A	8514	3	405	KKFNPAGERVCTILVDPSIPSTA YPSYGVPHS*GPSLSPHL/SSSS RPSSISCPLNGPWKGCS*PPCRA QCAQPQQAT*ESCIHS/SSNCIPP AWEGETPSKKNKINGNPWSKIR DKTSGGEVEVWGLVAAPVM
8458	38826	A	8515	100	1397	PPASTYLMLERLKAPWSAALQ RKYFDLGIWTAPISPMLTMLN GLLIKDSSPPMLLHQVNKTAQL DTFNYQSCFMQSVDHFPEILFI HRTYNPRGKV/CIYLPGGWTSG AAGGSSCPSSLCHPC/ARRDT/ CRPVDPVPSIQEV*SSMGESLYH PGGSSFPSTAYPS/SWSSPQLRSF SQPSTFVSSSRPSSISCPLNGPW KGCS*PPCRAQCAQPQQAT*ES CIHS*ATASLQPSCPSFTHTGCS TTASGWLTAGEAEELRAATTSR ASRSPPPTSSASSLVPPHLRNKV WLLCSVTCSTRLQTRQTSTRAC VPRTIMLPQTSPSKAPNWSSW* NPTSSTPSMPSAQGQQPNCAW ASLLWSRNPHTSLALAQKR*TY RSWKIPIRCSPSPLPAAAATLTR PSTCPAATS*PCSVPAARCSSPT CCRLSGRQAVALPV
8459	38827	A	8516	1	326	CLTQMYFLIS/FANVDTFLLAIM ALD/RLLAICSAIPLYCSIITPGIYS HFYCDAYLLMKIACSIHVQNQH VFLGAVVLFL/APCALILVSYIRI AAA/ILRIPSPTRRRKACSCIC
8460	38828	A	8517	2	669	TISYPQCLTQMYFLISFANVDTF LLPIMALDHYVAICSAIQ*CSIIT P/ELCQGLPVLA*AGSSLISPVHT VIMSRLAFCSAQISHFYRDAY LLMKIACSH*T\NQHVFLGAVV LFLAPCALILVSYIRIAAAILRIPS PTRRRKACSCICSSHLSLVTLFYG TVLGICI*PPDSFSAQDAIATIMY TVVTSMLNPFIYSLMNKEVQEA VRRLFSRGSHSSWCW

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8461	38829	A	8518	1	3594	MVAAAAATEARLRRRTAATAA LAGRSGGPHCVNGGRCNP GTG QCVC PAGWVGEQCQHCGGRFR LTGSSGFVT DGP GNYKYKTKC TWLIEGQP NRIMRLRFNHFATE CSWDHLYVYDGSIYAPLVAA FSGLIVPERDGNETVPEVVATS GYALLHFFSDAAYNL TGFNITY SFDMCPNNCSGRGECKISN SSD TVECECSENWKGEACDIPHCTD NCGFPHRGICNSSDVRCSCFS DWQPGCSCPVPANQSF W
8462	38830	A	8519	1	471	ALCAPQPGKCFCTKGSSG/DE CQLCEV/ENRYQANPLRGTCYN TLLIDYQFTSLSQEDDRYYTAI NFVATPDEQN RDLD MFINASK NFNL NITWAASFSAGTQAGEE MPV VSKTN IKEYKDSFSNEKFD FRNHPNITFFVYVSNFTWPIKI Q VQTEQ
8463	38831	A	8520	1	4289	
8464	38832	A	8521	1	3488	MDYGV LTR LGSSGFVT DGP NYKYKT KCTW LIEGQP NRIMR LRF NHFATE CSWDHLYVYDGD SIYAPLV AAF SGLIVPERDGNET VPEVVATSGY ALLHFFSDAAY NL TGFNITY SFDMCPNNCSRG ECKISN SSDT VECECSENWKGE ACDIPHCTDNC GFPHRGICNSSD VRGCSCF SDWQGPGCSPVPA NQSF W TREES NFKA/LPRASH KAVVNGNIMWVVGGMFNHS DYNMVLA YDLASREWLP
8465	38833	A	8522	4794	5740	YICNWYKMDSSFPSLVQSPRS PGSCGLSGWG WGCP RVASAGS ACSCNSA VPARRTQEACRRELI GGRSTIFTDVQGQWGAPGT VN EGNSACPPTL RVTVA AWLSLLF VLCRVCAASVPSLVR LRG P Q CSGPWGAWAPPWAAR VS QPG AGPGRGAEAQ LLPA ASIQWPC HQAPHLLVL ALV TSQ GPS RCR GFCLAGPCQGGPGG LIL FCHW NVPLQFSSLFFFF*DGV SLLL PR LECSGSISGHCNLRLPGSSDRPA LGS*VAGDYRCLPACSANFFVF LVEKG FH VGRAGLKL L/MVIH LPRPPRVLRLQA

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8466	38834	A	8523	594	2868	CWTSRNRRPIP GSCHPMELPRPF RGKAKVQNHQLVH\HNKALIN RGSLTFWLDGAIQAWHCPVK TYQQYTPVSSKAMY/DAFWNG/ KFRDC/AFHSWLNE DPFVCEYQ GQSSDLPQPPVNAGGGSGGS GGGSEGGGSEGGGSEGGGSEG GGSEGGGSGGS GSGDFDYEK MANANKGAMTENADENALQS DAKGKLD SVATDYGAIDGFIG DVSGLANGNGATGDFAGNSQ MAQVG DGDNSPLMNNFRQYLP SLPQSVECRPYVLSAGSEIGAA CASRSGYDNKGVRD IGYTDCK RSEDLDPLRHQILGGKKA IQFTL QGFPTLPEGAPAGNSGSLAVHK TAQSSYRHALLI LTPMSGTRF PPIPGPVNVIRVFPFAPSSECRC YSWSWVPGPSPVHCQSDGSVP IP SYAPLASQYSSFLFFRNRQPYA PYDYL SVMTPSRTLREQIRIRYA PSAPRLPPPVEVYCSNSTIVVRN NPSGPTPGFAGGTLLERSGGP FRYAKRAKG DVLKPFSLNLPL QTLIRFMVDIACGM EYLSSRNFI HRDLAARKCMYEFWRTRGWE TAAAYYGGTTFFR KESQKLQ QSAKKRDAELANGALGHI ELNN DYTLKKV MKPLITSNTV TDEIE RANVFKMNGK WYLFTDSRGSK MTIDGINSNDIYMLGYVSNSLT GPYKPLNKTGLVLQMGLDPND
8467	38835	A	8524	302	409	
8468	38836	A	8525	199	359	ARRQQVSVKS YRWEEDQHCG ELQGSE*VSDGLFKPP*S*HG伟 VEEERQKEQN
8469	38837	A	8526	1853	2032	VKQST ALLPHAVAC*PKVISSG ARG LKSILV LIRIVVMMVSMLP QLALSGWGRFRVLPG
8470	38838	A	8527	118	445	AAGGE PGDAPW VPGVWE PPES VCRG PPPS STF PHP VLSTFGAS G PENS RD C SWLSPQH*AA*V ASG NNGPQAAQGSLSGIPD AATLSG I*RASILH VS VVEI ISSPGFR

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8471	38839	A	8528	1	770	MRVLGIETSCDETGIAIYDDEK GLLANQLYSQVKLHADYGGVV PELASRDHVVKTVPLIQAALKE SGLTAKDIDAVAYTAGPGLVG ALLVGATVGRSLAFALGRFGDP CTPYWRASVSARCWKIPAPNFR CALLGSAAYAVNHGTGLSKKP TTLGSDHSKTPAQLAKRAGEA RRNGWQGALFPWESARSGEEE TP/VICRH*HSHRAAAKSGLGA GGTSSGGRYRLGGYSILADHGG *KFHCA*RHGATSGDGKVLD
8472	38840	A	8529	3	834	VGRVEIADQYQDLAILWNCLG SDIHASSRQRRPFRGKAKVQNH QLVHLQQSSHQPWLPHFLAG* WGDSGLGGGSIEGGSEGGSE GGGSEGGGGGGSGSGDFDYE KMANANKGAMTENADENALQ SDAKGKLD SVATDYGAAIDGF1 GDVSGLANGNGATGDFAGSNS QMAQVGDDNSPLMNNFRQY LPSLPQSVECRPYVFGAVRHDV RRIRVTGVTRVTPPEEVDTSVH SRGAHRIRSGFAPKRSRVTTD TCIKRNSTCGVKSLSLWDGGGF
8473	38841	B	8530	1	811	
8474	38842	A	8531	1	1044	
8475	38843	A	8532	3	1472	GVVGERAGMARPGPRREGGGS G/GYSRPVPPAGGP GP* RGRTRI/ SGLANGAGPVVFQFLTELTRLF QKCRTSGSVYITLKKCKQREGS RAMLPGFPYTPVSSKAMYDAY WNGKFRDCAFHS GFNEDPFVC EYQQQSSDLPQPPVNAGGGSG GGGGGGSEGGGSEGGGSEGGG SEGDGSEG DGSGGSGSGDFD YEKMANANKGAMTENADENA LQSDAKGKLD SVATDYGAAID GFIGDVSGLANGNGATGDFAG SNSQMAQVGDDNSPLMNNFR QYLPSLPQSVECRPYVFGAGKP YEFSIDCDKIKILRGVFAFLLYV ATFMLPVANIAIPQKRPFMQQT RCEVQCREDIEVQKLKSYDKLL ASINKPGVNGWQKRITVNA GEAHDQQALDYALYHLRIMTP AHDERSSIAAKGLTGEGYKGH VFWDTEVFLLPFHLSPTVAR SLLRYRWHNLPGRAARRKDGN GWAGGAPISVGKARAAAKK
8476	38844	A	8533	609	855	

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8477	38845	A	8534	369	1278	GHTACEWYSQGRHPGPPELSPFL *GPG*NAGHVISMMPAARPMEPC LGTGGLDVLLHHLRPDLPAAAL PGSAWPGEALPLPGQVSGRG RSAACLQPGAWPGRGAAPVRR RPRPAAAGSVREAELLESPHLA AHRDC*LARKLNNSGGYIPQAELY GKHAGLPLPGARALSCGCRAR APVPAALPHPLLDHQDPGPAGR IYGTGAGTQTLDGSAPRTSRAL GSTQMPEARPGLAGWGVA WSRG*SR*TRGSAS/SPRPRCA LLALPGA AVSGDLRARNPRGSR PPKAPSGRGGPLLPPHRSTPRR
8478	38846	A	8535	3	2494	YQRQSSSPEDPAETASPTYALIA ACQSEIQLQTRQQPCDMAPGPL DCDPVKGSSRKRMFLMNAPPV VALQPWEASVPPGSFRFPECF SEADKGVESMSPTMHKEPAL AACGLVADFDPVGEEETADFG PLVLDSDSDSVRDIEEAIQEY L/KGGGSRCKRELAHSS/APTAL CSPKLVPGS GG/GGPGSQVGSS KDQGSASPVSMSRADSF EQSIR AEIEQFLNEKRQHETQKCDGSV EKKPDTHENSAKSLSKSHQEPA TKVVHRQGLMGVQKEFAFCRP P\RLAKTNVQPRSLRSKVTTTT QEKEGSTKPATP/TRPSEAVQN KSGIKRSASTARRGKRVTSAVQ APEASDSSDDGIEEAIQLYQVQ KTRKEADGDPPQRVQLQEERA PAPPAHSTSSATKSALPETHRKT PSKKKPVPTKTTDPGP GPDLDAD HSPKIPKETKAPPPTSPASRSKF VEWSSCQADTS AELIVAVLDIFK TILP/APMEGSDG SLSASPLFYSP NVPSRSDGDSSVDSDDSIEQEI WTFLALKVQSRSL LARGAAGQ APERVEKQAPAGAEELPKSKRD SCEGSRKPKPSVFGSRAERTKP RPCSSVDSDDSIELEIRKFLVE KAKESGVPGQAQPCLWKPTLA GEEGLRSPAKQEGLTSAIVAGIS AALGPEHTWVPGATT PRTPSVA PVLVPAVPTHWKKLAPACGGP

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8479	38847	A	8536	1	2463	MHKELPALAACGLVADFDPPVG EEETADFGPLVLDSDSSDVDR DIEEAHQEYL/KGGGSRCKRELA HSS/APTALCSPKLVPGSGG/GG PGSQVGSSKDQGSASPVSMSRA DSFEQSIRAEIEQFLNEKRQHET QKCDGSVEKKPDTHENSAKSLS KSHQEPAVKVVRQGLMDVQ KEFAFCRPP\RLAKTNVQPRSLR SKVTTTTTQEKEGSTKPATP/TR PSEAVQNKGSIKRNASTARRGK RVTSAIQAPEASDSSDDGIEEA IQLYQVQKTHKEADGDPPQRV QLQEERAPAPPAHSTSATKSA LPETHRKTPSKKKPVPTKTTDP GPGDLDADHSPKIPKETKAPPP TSPASRSKFVEWSSCQADTSAE LIVAVLDIFKTILP/APMEGSDGS LSASPLFYSPNVPSRSDGDSSSV DSDDSIEQEWTFLALKVQSRSL LARGESCPQAAQGPLSPPGLSS QTGSPKAPLSKTLDP/LGCKRK HRGG\SKAQPAPRDRDGRAPLG WDLSIQGTASEAPGGEAARVP GDRTSTSQQGQKTDEARHLDKK KSSEDKSSLDSLKDLDTAIKD LLRESQGPAPSPGSLSDNSSV SDDSI ELEIRKFLVEKAKESGVP GQAQPCLWKPTLAGEEGLRSP AKQEGLTSIAIVAGISAALGPEH TWVPGATTPTPSVAPVLVPAV PTHWKKLAPACGGPGQLIDID
8480	38848	B	8537	1	3345	

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8481	38849	A	8538	1	1339	MTKKSPGPDSFTGHWCVISIPS GYERSRLKVTLPPEEGRGALPFL VSVAISSLGSCSDNNAAVPTVLE GATTVISAAA VLRDPHDGAREII LEAMTISAVIAAEISWTSQCG LCLHPGMFMPYRHDGIRDLLP LVLSATICAEFFKGDSKKPSKK RVKRKPYSTTKVTSGSTFNENI RRYAVHTNQCRRPHGSRVKKK RYPQEDDFHHTVFSNLERLDKL QPTLEASEESLVHKDRGDGERP VNARVVQVAPLRLLESSKYSGIT CQENNLDAKKA/TP/CRTPYMT SLTRTPHTTSLTRILSTA/SANE ADKGIANEDAAGQIANEDAAH GMPARMPPRASPTRSPPRASPT RTPPRASPTRTPRASPRRTPPT GSPRRTPPRASPTRTPSTASPTR TPPMASPTRTLPTALLTRMPCT ASLMRTPYTTSLMRVPYMTSL MTPYKAR
8482	38850	A	8539	1	3090	MHKELPALAACGLVADFDPVG EEETADFGPLVLDSDSDDSVDR DIEEAIQEYLKVGS SKDQGSASP VSMSRADSFEQSIRAEIEQFLNE KRQHETQKCDGSVEKKPDTHE NSAKSLSKSHQEPA TKVVRQ GLMGVQKEFAFCRPP\RLAKTN VQPRSLRSKVTTTTTQEKEGST KPATP/TRPSEAVQNKGSIKRSA STARRGKRVTS AVQAPEASDSS SDDGIEEAIQLYQVQKTHKEAD GDPPQRVQLQEER
8483	38851	A	8540	1	2919	MHKELPALAACGLVADFDPVG EEETADFGPLVLDSDSDDSVDR DIEEAIQEYLKVGS SKDQGSASP VSMSRADSFEQSIRAEIEQFLNE KRQHETQKCDGSVEKKPDTHE NSAKSLSKSHQEPA TKVVRQ GLMGVQKEFAFCRPP\RLAKTN VQPRSLRSKVTTTTTQEKEGST KPATP/TRPSEAVQNKGSIKRSA STARRGKRVTS AVQAPEASDSS SDDGIEEAIQLYQVQKTHKEAD GDPPQRVQLQEER
8484	38852	B	8541	1	1122	
8485	38853	A	8542	1	1074	
8486	38854	B	8543	1	1017	

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8487	38855	A	8544	I	1436	MNL PRAER LRSTP QRSL RDSDG EDG KID VLGE EEE DEVE DEEE EAS QQF LEQ SLQP GLQ VAR WG GVAL PREHIE EGG GGP SDP SEFG TEFR APPR SAA ASE DAR QPA KP PYS YIAL ITMAIL QSP HKRL TLS GICA FIS GRFP YYRR KFP AWQN SIR HNL SLND CFV KIP REP GRPG KG NYW SLD PAS QDM FDNG SFL RRRK RFQR HQL TPG AHL PHP FP LPA AHA ALHN PRPG PLLG APAP PQP VPG AY PNTA PGR RPY ALLH PHPP RYLL SAPAY AGAP KKA E GAD LAT PA /ALPV LQPS LAT VK PV GQFC SNSS GIRR RT \NGCAP TKG AVL GG HLS AAS AAA VSG GGR GL WADI AR ALWA ER DL TS FFSIA HAQFP GRV RR ALLE PGSR QPHSPTGV QKR PLL ANPAGL GQ SKS SETTEN RG /CPM SCQ LL AGL RS NSPL SV VRK RL RAD LP SFIAN KRP GRAATA AEPR RD FL
8488	38856	A	8545	I	1287	MNL PRAER PRSTP QRSL RDSDG EDG KID VLGE EEE DEVE DEEE EAS QKF LEQ SLQP GLQ VAR WG GVAL PREHIE EGG GGP SDP SEFG TKF RAPP R SAA ASE DAR QPA KP PYS YIAL ITMAIL QNP HKRL TLS GICA FIS GRFP YYRR KFP AWQN SIR HNL SLNE *FVK IREP GH PG KG NYW SLD PAS QDM FDNG SFL RRRK RFKR HQL TPG AHL PHP FP LPA AHA ALHN PRPG PLLG APAL PQP VPG AY PNTA PGR RPY ALLH PHPP RYLL SAPAY AGAP KKA E GAD LAT PG TL PV LQPS LG QP W E /RG QG SG V AT GR \GC ISFS IESI MQ QV RG AGT GA QSL SP \AW SYC PLL QRP SSI \RT ILQQ QQ QH QE ED CANG CAPT KG A VL GG HL SA AS ALL RY QP VAK GL WADIA AAP LG GE GT SP VFL

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8489	38857	A	8546	202	823	AQNPTAFGVKHTSSGGEETFPN IRGIKKSPPLSSSSIRLSKNILST TGKTVHQTRDDDQPRDFKKR NRVNESHQKSSNMNAGPSWNK VQHSKNSSGKRQSKSQVPHASS QPRSSLTA VTQPTEEKLIESISPE ARRKRNPPLGFRQCQGASRNKLFL DFQSMKIIKENADEDSASDLSD/ SGKN SHSSFS PHTSRSQSS*RN RVNESHQKSSNMNAGPSWNKV QHSKNSSGKRQSKSQVPHASSQ PRSSLTA VTQPTEEKLIESISPEA RRKRNPPLGFRQCQGASRNKLFLD FQSMKIIKENADEDSASDLSDSE RIPPPSPLTPPDNLRAEEIGSSL L
8490	38858	C	8547	219	1013	
8491	38859	C	8548	252	452	
8492	38860	A	8549	25	443	
8493	38861	A	8550	20	1371	RLRGPALGAGGGSVTLRL/PRS EQAARKEAGLNTMIPLEKPGSG GSVPRRHRLPGSSGS*AGRA RTPPPQQARGLLTEIRAVVRTEP FQERLQPVPRAWSWAGGKFSSG EKMYKEKILGKNLLQSS*EKRR K\SQDCRMEIIHEIAVLELAQDN PWVINLHEVYETASEMILVLEY AAGGEIFDQCVADREEAFKEK DVQRLMRQILEGVHFLHTRDV VHLDLKPNILLTSESPLGDIKI VDFGLSRILKNSEELREIMGTPE YVAPEILSYDPISMATDMWSIG VLTYVMLTGISPFLGNNDKQETF LNISQMNLNSYSEEFDVLSESA VDFIRTLLVKKPEDRATAEECL KHPWLTQSSIQEPESRMEKALE EANALQEGHSVPEINSDTDKSE TEESIVTEELIVVTSYTLGQCRQ SEKEKMEQKAISKRFKFEPLL
8494	38862	A	8551	1	1275	
8495	38863	A	8552	1	4173	

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8496	38864	A	8553	2	5115	PDQFHNMDLRGGPHDGVTIPRS TSDTDLVTSRSTLMVSSYY SIGHSQDLVIHWDIKEEVADGD WIGMYLIDEVLSENFLDYKNRG VNGSHRGQIWKIDASSYFVEPE TKICFKYYHGVSGALRATTPSV TVKNSAAPIFKSIGADETVQGQ GSRRLISFSLSDFQAMGLKKGM FFNPDPYLLKSIQPGKHISIFPALP HHGQERRSKIIGNTVNPWQAE QFSFVSLPTDVLEIEVKDKFAKS RPIIKRFLG
8497	38865	A	8554	202	260	ARVHQPVSLKQRFPLELGRHH QDSEAHAPPGPAAASRGGI*V AWPAPRAGVVSLLGCRSSWTA AMELSAEYLREKLQRDLEAEH VLSPGGVGQVRGETAASETQ AGERVPSRRAPAHPCl
8498	38866	A	8555	72	578	GSKGSVAGARA WVVSLLGCRS RWTAAMELQRRIPPREAAGP WRRSMWRWRTRPSTVAPVASE SWWCRPSSRGNRCFQRHSDLPS MTIHCMDMVITYGLDQLENCQT CGTNYIISVLNLTLIVEQINTKL PSSFVEKLFIPSSKLLF\RYHKE KEVVAVAHAVYQAML
8499	38867	A	8556	299	939	LPSPGGVGQVRGETAASETQVL YRAMRRVTAANQAFFSEAEVT AAKERGIVLPLRC\DP\\$QTIHCD MGITYGLDQLENCQTCGTNYII SVL\NLLTLIVEQINTKLPSFVE KLVIPSSKLLFWRYHKEKEVVA VA\HAVLSRPMLQLGRNIPCFG RTAY*V*YWGRKWTGPLNNL PGTVCNFPEACSEIKHEAFKNH VFNVDNAKFVVKFDLN

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8500	38868	A	8557	1407	2783	SSAASHSSSPGAASRARATAGS RRRSSPIQSCHPPASACGQSGQS ETHRLAMRNRTTPS*GFSSK/H MRRSSSLASS*RG*KSVAVIL*IS ASGILPTDVHLSPTPGSSETCHR PHPGH*EPSDCLQKLPASALG*S *QEQLSHNSPRSA*AQYA/ESSG NSFFSSKVGD*RFTTTVA\PGGP GRRTLPGKPSPEHPHRLPELPPP RSPAQVCDQTLVAPHDHNTAG/ TPGDQVCLTVSTSRSLSVLSK GCFFLHHSTLSVQAGVRHLSLV S*AAEPTSYL*VGPKLMAPS*KS LKIRTRKPRADDSPGTTSRYSSA HTRTRKPRADDSPGTTSRYSIAH TRMWKPRADDSSRHRSRYSTGCR SPGQMTLHAPADTALHTPG/PR KPRADDSPGTTSRYSTAHTRTRK PRADDSPGTTSRYSTAHTRTQKP RADDSGTTSRYSTPLASRRHRI AASASWALVVICLTL
8501	38869	A	8558	92	1817	PLRNTGLCRGKGHPGLESGSR RRRDGRASERRQTQRERGKTLP CSSHSPWWLKANASAPAVWSQ AHRTQKPRADDSPGTTSRYSTA TRTRKPRADDSPGTVPDTALQTP GRSPGQMTPGTSRYSTGRGSP GQMTPGTSRYSTERRSPGQMTL QTPADTAQDAEAQGR*LQAPA DTALHTPGRSPGQMTLQAPA DTALHTPGRHSRGKMTLQAPA DTALHTPGRGSPGQMTLQAPA DTALHTPERSEPGQMTVRRPA DTALHTPGRGSPAQMQLQAPA DTALHTPGRSPGKMTPGTSRY SIAHTRTRKPRADDSPGTTSRYST AHTRTQKPRADDSPGTTSRYSTA HTRMRKPRADDSSRHRSRYSTGC RSPGQMTLQAPADTALHTPG/P RKPRADDSPGTTSRYSTAHTRTR KPRADDSPGTTSRYSTAHTRIRK PRADDSPGTTSRYSTAHTRTQKP RADDSRHQQIQHMRMQKPRADD SPGTRRYSSIAHTRTRKPRADDSPG TSRYSTAHTRTQKPRADDSPGT SRYSTAHTRTQKPRADDSPGT RLKTRKGWTW

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8502	38870	A	8559	13	299	EKGQDILQNLFWQLRHGPIMSS \PSASNTGWGSSS*SIVPSSTVSS WSTAMKLSSLSEELAMTFHST ENIVVLGVWQWLTPVVPALWD SEAGRSP
8503	38871	A	8560	337	1879	VHVGAARRGGFGVYPVLSLTVS GTQNCGPCLQTVVSTYQRV*PI SVIMVS*RLSRKETFSGRAVPLI LEPQSLASRTVHAIMM/HNQS MYVFGGCTQSSCNAAFNDLWR LDLNSKEWIRPLASGSYPSPKA GATLVVYKDLLVLFGGWTRPS PYPLHQPERFFDEIHTYSPSKN WWNCIVTTHGPPPMAGHSSCVI DDKMIVFGGSLGSRQMSNDVW VLDLEQWAWSKPNISGSPSPHPR GGSQLFKDAWLLHMHSGPW AWQPLKVENEEHGAPELWCHP ACRVGQCVVVFSQAPSGRAPLS PSLNSRPSPISATPPALVPETREY RSQSPVRSMDEAPCVNGRWGT LRPRAQRQTSGSREGSLSPAR GDGSPILNGGSLSPGTAAVGGS SLDSPVQAISPSTPSAPEGYDLK IGLSLAPRRGSLPDQKDLRLGSI DLNWDLKPASSSNPMMDMDN RTVGGSMRHPPEQTNGVHTPP HVASALAGAVSPGALRRSLEAI KAMSSKGPSASGRH
8504	38872	A	8561	25	313	

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8505	38873	A	8562	1	1409	MIERVLEWKWALSRAEGLHRH QCLEFLIHLVFQLMKVVNEMCP NITRIYNIGKSHQGLKLYAVEIS DHPGEHEVGEPEFHIAAGAHGN EVLGRELLLLVQFVCQEYLAR NARIVHLVEETRIHVPLSLNPDG YEKAYEGGSELGGWSLGRWTH DGIDINNNFPDLNTLLWEAEDR QNVPRKVPNHYIAIPEWFSEN ATVAAETRAVIAWMEKIPFVLG GNLQGGELVVAYPYDLVRSPW KTQEHTPTPDDHVFRWLAYSY ASTHRLMTDARRVCHTEDFQ KEEGTVNGASWHTVAGSLNDF SYLHTNCFELSIYVGCDKYPHE SQLPEEWENNRESLIVFMEQVH RGIKGLVRDSSHKGKIPNAIISVE GINHDIRTA\TDGDYWRLLNP\G EYVVTAKAGRHFCHIHPRTCMV GYDMGAHK/CLNFTLSKTN\LA RIRRDHWRSGKAAPSALPSPG G*KLRGVRKRRQRG
8506	38874	A	8563	3	749	KTDHILGHKTCLKTFRKIEIISGI LSDHSGIKLQINNKGNFGNHTS TWKLNNMLLNDQ*VNNEIKKEI *NHPETNDNGNATYQNL*DTG KEVLRGKL/PISTYIK*VEKLQI NNLTMHLEKLEKPEQTKRKITR RKEIIKIRAEINEIEAKKTIKPFN ETNSWFLENIHKTNEHLARLRK KDPNKIREEKEDIITDTVEIQRII RSYYAKKWINLEETDKFLDTY NLPLRNNEEVQNLSPITTTVPI
8507	38875	A	8564	1	842	

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8508	38876	A	8565	1	1203	VPELFGNCRQLLEEVEVAT*PR RFRDSPGGSVQGLWTSLRRAAE MLFPVHLVRPRM*ILERFVPHALDYLLGSRLFKEPLPLKQVNPS RSLDHLQR\AREHFINYL TQCH CYHVAE FELPKTMNNSAENHT ANSSMAYPSLVAMASQRQAKI QRYKQKKELEHRLSAMKSAVE SGQADDERVRGYYLLHLQRW\VDISLEEIESIDQEJKILRERDSSREASTSN\SSRQERPPVKPFHSHFGTWLHSQSTFGAGYSKGWPTYRTVS\DWYE\QHRKLWSTYPDQG\IAKAAPEEFRKAAQQQEDQ\KKRRKRM\RTKQLPQSPGVGM TGSDTHP*GPMGTDRTWADLP TTPQD\SGVHTPLPRKTMQSSPPPVSWLQLCTTEGKDAKSCFAFSKVSSDL SVYLYP
8509	38877	A	8566	1	995	GTKELL LT*LGGSPLLLT*TKPL GVDPL\LKGGVTQGFNEKAVFA ALRPSYGQPAGKPAFAGAMSL AGAQ GSLWSVEGGNKLVC SGL LKLTKANVIHATVTSVTLHSTE GKAL YQVAYENEVGNSSDFYD IVVIATPLHDNNSSSNLTFAGFH PPIDDVQGSFQPTVVSLVHGYL NSSYFRFPRP*AFPL\SNIL TTDF PSFFCTLDNICPVNISASFRRKQP QDAAVWRVQSTKPLFRTQLKT LFRSYYSVQTAGVGRANPLYG FRPHGFPRFALHDQLFYLN ALE WAASSVEVMAVAAKNVAF AW LYNRWYQQLDKIDQKDLMHK
8510	38878	A	8567	1	372	

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8511	38879	A	8568	1	1699	MHAKSIKTQALADMEKLKVVR RDKNWVARIIIPQMITSKGHGTV TTTSSAKLKSQGKDSVAVKRV RSGLMIGFRFMVIPYSGPQVL MEIPKDADKLLCPSCAAVVLG QKKHETQTLSLKELPVQDNVV PKEDPGTWEWRTVKEGILEEV MCWLQSRVEGDWAKEERKIFH EGELAEAKAGRGGLASCTCCPL TPGKMGWPWTFTLLCGLLAAT LIQATLSPTAVLILGPK\VIKEKL TQUELDHNATSLQQLPLLIAM REKPAGGIPVLGSLVNTVLKHII WLKVITANILQLQVKPSANDQE LLVKİPLDMVAGFNTPLVKTIV EFHMTTEAQATIRMDTSASGPT RLVLSDCATSHGSLRIQLLHKL SFLVNALAKQVMNLLVPSLPNL VKNQLCPVIEASFNGMYADLL QLVKVPISLSIDRLE/F*PSVSCH QG*HHSALPGGVVGLTGKD QV\HNSAASLTMP LDNIPFSL IVSQDVVKAAVAAVLSPEEFM VLLDSVLPESAHLKSSIGLINE KAADKLGSTQIVKILTQDTPEFF YRPRPCQGGPTDRAGSVSLQ
8512	38880	A	8569	1	1060	MGLPAQGVGGNTLAKLLASDD IAKGGKRNKSEASVVRNAADA PKVLQDLSARLMGDFELRNCN SPCTLLIGIVVLINAAAETLVFLS DHMEDQGSSQLNVAVLSYFQQ QDPEGQKEETAGIDLMDMASDI LQPKGDDVARISWYLRIITRY QETFNVIERCPKPVIAAVHGGC GGGGAAAPMPRPLASSLSSVM GQTVSQEAAPPPGSQGWFWWS FSIPEGLYLLGVDLVTACDIRYC AQDAFFQVKEVDVGLAADVGT LQRLPKVIGNQSLVNELAFTAR KMMMADEISSKSPVALQ/S/TKVN LLYSRDHSVAESLNVASWNM SMLQTQDLVKSVQATTENKEL KTVTFSKL
8513	38881	B	8570	331	1200	
8514	38882	A	8571	3	379	TSLTFHSPEVPSS*PPSCTR*AGA ARGPRPPGAAGRPR*SC*GPPGT RRWQS*GGTSP LGPVPGGRSGA ASCGLPDCEL*PLKRSAQGRNQ CPV*SSPRSWRSRSEPCAARG WPPSACRHGNRR

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8515	38883	A	8572	384	1718	SQLPRLPESCAADPGA*PPS CTR*AGAARGPRPPGAAGRPR* SC*GPPGT/PALAKPPSCPVT AAAPTQARPMIKPQGAAWSTQK LPIPTSASPTQKSPIPTSASSTQK LPIPTAAWSTQKLPIPTAAWST QKLPIPTAAWSTQKLPIPTAAW STQKLPIPTAASSTQKLPMPTAA SSTQKSPIPTAASSTQKLPIPTAA WST*KLPITRAAWSTQKLPIPTA ASSTQKYTIATAASYHAKATDA WST*KLPIPRAAWST*KLPIPTA AWSTQKLPIPTAASSTQKSPIPT AASSTQKLPMPTAAWSTQKLPI PTAAWSTQKLPIPTAASSTQKL PMPTAASSTQKLPMPTAAWSTI TTMGATTHGPSTDTQNVVFLH PRCPEQASSQRSGAGAD*GLSN PKVSSAEAPSCAKDEPEVEKGR GPAPWTSQRWRRAVGRPRG
8516	38884	A	8573	302	543	KLHLGWGKTPG*HWGLY*NLP RLNGPNSLMPSLRRVRRNKAR QVTSIAGCALQMEQWMHGMT RHPTRISTPITAAREVRI
8517	38885	C	8574	253	396	
8518	38886	A	8575	1107	1751	LQDLSQYFGGSQLIKT*IG*TTSI ITNSNL*TTLEM/SVKGIAEQLG TNCQMAWENRIALDMILAERG GVCIMIKTECCAFIPNNNTAPNGS ITKALQGLTALSNELASSSGVN DPFTGWLEKWFGWKKGITASIL TSLTAVMGVLILVGCCVIPCICG LVQRHRGPPLVVIETKPLGLER LAGLPVGHALKGSGIQATPQN GENADRREAFPAAS
8519	38887	A	8576	1	1365	
8520	38888	A	8577	3	263	QLILKDKEFITQSAADIKEKLQKS TLGPERNLKTLNLAT/CCFL** RSGGAGGTGQTR*EKGHHSFH GPRASGLWRLWNAESLGKSNA
8521	38889	A	8578	365	470	
8522	38890	A	8579	1	1278	
8523	38891	A	8580	23	257	
8524	38892	A	8581	1	1812	

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8525	38893	A	8582	265	699	LLGSTVLFHDPQLLIELYHSSHG PKVPFLGIREAKNSRSENTRLAT ILGAGLLPSWKWFTTILGAL*A RTPR*HFGNH/VTDIQS/RIEAVK LQMEPKMQSKTKIYRRPLDRPA SPRSDVNDIKGTPREEISAAC\PL LRPNSAGSS
8526	38894	A	8583	2	181	
8527	38895	A	8584	1	69	
8528	38896	A	8585	1	674	MDLNYTLEQMMLTDIYRTFHPT TTEYTFYSTGHGTFSKTDDVIG HKMSLDKFKKIEMISNTVSDHS GIKLEINSERNLENHANTWKLN NLLLNECWVKNKMKEIKKLF ELNDNNNDTYHNLWDRAKVVI RGKCIALNTYIKKSERAQTDNL RIKKNHMIISIDAEEKAFDKIQH PFMIKTLSKISIRGTYLNLIKDI/S *QTHSQHNAEWGKIESIHSENW NRG
8529	38897	B	8586	1	415	
8530	38898	A	8587	1	516	
8531	38899	B	8588	110	382	
8532	38900	A	8589	140	253	QNKACQHPPKITRVHQHQWIQT KKKSSIYLKKEFRRRLVIKLIREA PEEGKAQCCKEVQKLIQKVQGEI IDEIDTINKKQPQLQETMDTLTK MQNAQESLSNRIEQEEEHSKSL ENIFGSIMEENFPSLARDLDSQI QEAQRTPGKFITKRSSPRHIVIR LSKVKTKERJLRRVVRQKRKIVL KS*PGNMTKQGLSTSPKNHTSS PTMDPNQEEILDPEKRIQEVSY
8533	38901	A	8590	89	194	
8534	38902	A	8591	2	633	

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8535	38903	A	8592	298	2648	GSSKILLFNQNEDDKINFELFFF FVASALVLVQKA FSRSWSSMA LADKRLENLQIYKVLQCVRNK DKKQIEKLTKLGYP ELINYTEPI NGLSALHLASV NSNDIDMVSFLL DLGAHPDVQDRMGCTPTMRA AELGH ELSMEILAKA KADMTIV DNEGKVLEG TGGLTSSPLAHIA VALHIPRRDTQGVLFY CILPTKR HYRCALIA LEHGADVNNSTYE GKPIFLRACE DAHDVKDVCLTF LEKG ANPNAINSILKLLFAYNG DVGLISINGNTPLHYAAMGGFA DCCKYIAQRGCDLKWNLDHK TPRAVAK EGGFKA ASKEIRR/C RENRTSQARSQKSQIPLWAL RLHDWSVERA FLREAFAVLD RGDGSI SKNDFVMVLEE\\SRIM QAQNSWLPFAH LHEKTRGGGV NIN*ILLKEPD ILNKS FVLGSYGP KKKEKG MGKKGKFV LPLP ICVIPEYA FP PQQD GPPYYMIE TYKNVT DSSRFNRD HPP EHIQ DDSVWY IDDSEK VFSN NIITKA GDLASLKK FA ESGIPV DMKDN YYKTPLMT ACASGN IDVV KFLL EKG YAS PSG QQD IVELL VESGA LIDA AS INN STPLN RAIES CR LD TVKY LLDIGAK FQ LENRK GHSA MDV AKAYADY RIID LIKE KLDN LPK PAENQ KLKG KTP PILK TEG PEIK KEELL SSIY GV PTT SEGK
8536	38904	A	8593	3	838	MGRGWTQA VGPRWSGGSSCTL YSVGADGRGQGHQS RGCRPPG PPSASSAPCLA WGAAGRARRE GLRQNAERSSPL TAPAGRP*PC GAGPCRR*SR*R\\PLVGCLRPW ASPGTGAACGRCCC PPP*P/P*P NPWHFTVSKAFSY MPSTTA/RL VRGPRLLVGP VPV VAPYIPP/PGS PASRRGSRCR GRSRPS PRPRPSV LSCHGVSL*T GPSLPG WLLQIW QRSAQMS/P/PPKG P*GSREGPP PP/GP ALLP AAAPGG QQGH RAPA AGSC GRRAA ARR MEW VRNSPP
8537	38905	B	8594	1	2700	

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8538	38906	A	8595	1	1240	FPPYATNEIGKVTGLNRRELGH GALAEKALYPVIPRDFPFTIRVT SEVLESNGMRRIGQPPASSRPV RRVRAPLPPPILLEVRAPLPASRP SGEVLCVTFDSLESGIKSDQVI TAINGIKDKNFMHYEFPPYAT NEIGKVTGLNRRELGHGALAE KALYPVIPRDFPFTIRVTSEVLE SNGMRRIGQPPASSRPVRVRA PLPPPILLEVRAPLPASRPSGEVL CTVTFDSLESGIKSDQVITAINGI DKDNFMHYEFPPYATNEIGKV TGLNRRELGHGALAEKALYPVI PRDFPFTIRVTSEVLESNGSSSM ASAC\GGSLALMDSGVPISSAV AGR TN*DWS PKPDPEKGEIRKII VC*QIFLGIEDYNGDMDFKIAG TNKGITALQADIKLPGIPIKIVM EAIQQASVAKKEILQIMMNKTISK PRASRKENGPVVETVQVPLSKR AKFVGPGGYNLKKLQAETGVT ISQVDEETVFCNLHQHPVLMLE GKRLSFTEICKDDQEQAIRNLG AVILPAHNNWKSEILGVMGKII
8539	38907	A	8596	152	305	DNQNGKLICKS*PCNFVHRAPY AVEITVLRFHNCNWTQVAQRE RTFLILIK
8540	38908	C	8597	414	611	
8541	38909	B	8598	1	403	

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8542	38910	A	8599	1	1702	MDSDEGYNYEFDEDEECSEEDS GAEEEEDEDDEPDDDTLDG EVELVEPGLGVGGERDGLCG ETGGGGGSALGPGGGGGGGG GGGGGPHEQEEDYRYEVLTS E\MLQHMVECIREVNEVIQNPA TITRILLSHFNWDKEKL MERYF DGNLEKLFAECHVINPSKKSRT RQM\NTRSSAQDMPCQICYLNY PNSYFTGLECGHKFCMQCWSE YLTTKIMEEGMGQTISCPAHGC DILVDDNTVMRLITDSVKLKY QHLITNSFVECNRLLKWC PAD CHHVVKVQYPDAKPVRCKG R QFCFNCGENWHDPV\QCKWLK KWIKKCDDDSETS N WIAANTK ECPKCHVTIEKDGGCNHMVCR NQNCKAEFCWVCLGPWEPHG\ SAWDTV PV*NEDDAKAARDAQ ERSRAALQS YLF\YC\NRYMNH MQSLRF\EHRLY A Q\VTQTMEE MQQHNMSWIEVQFLKKAVDV LCQC RATL MYTVF\AFY\LKK NKPSFHIFENNPKARFDENATE GLSG\YLGTRKFPKDS\LQDIKQ KVPRPSTRYCESRRKG FV TSMC HEGYEKDLWEYIED
8543	38911	C	8600	118	219	
8544	38912	C	8601	16	408	
8545	38913	B	8602	1	996	
8546	38914	B	8603	1	1302	

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8547	38915	A	8604	983	2127	DNWKSIRGSCWQDPRELLTFM APCIGVVVMQTTR*K*NTLAGH PSAGVCWCVTSAACGTGAWD ATSPSLSTFATAPGLPRCCSQAS PAPRAEPLHGQPGAPPHALKRP PGLPWP*PQEARNYRHINQAYA YSIQGDGAEDDDERIVRFHTRV INHKKRKNNSPRIVQSNDLTEAA YSLSRDQKRMLYLFVDQIRKSD GTLQEHDGICEIHVAKYAEIFGL TSAEASKDIRQALKSAGKEVV FYRPEEDAGDEKGYESFPWFHK RAHSPSRGLYSVHINPYLIPFFIG LQNRFTQFRLSETKEITNPYAM RLYESLCQYRKPDGSIVSLKID WIERYQLPQSYQRMPDFRRRF LQHIFVLRERPETVLIDLIQRTK DAVRELDNLQYRKMKKLLFQE AHNGPAVEAQEEEEYGNLDR RAYDYVKERRTVTKPNPSFMR QLEEYQGILLARPKRTAYIYGS VYRRCGYADHKVEIKHPGWAS ISRGVLVCDECCSVHRSLSGRHIS IVKHLRHSAWPPTLLQSGFGPG SRRAAPRAARGPTPRTEEAAW AAMALTFLVLLTLATLCTRLH RNFRRGESIYWGPTADSQDTVA GSPDHGLLAFAVHRLVRFLLW VLCPGWAFFLVNSSRGGVFNP LHPCPRHGQARFAGVGRAEDV TFLYHPCAHPWLKLQLALLAY ACMANPSLTPDFSLTQDRVDIE
8548	38916	A	8605	1	224	RKQEWLSKQKENIQHFQAEEE ANLLRRQRQYLELECRRFKRR MLLGRHNLEQDLVREELNKRQ TQKDLEHAMLLRQHESMQELE FRHLNTIQKMRCELIRLQHQTE LTNQLEYNKRRERELRRKHVM EVHQPKGLSKELPNKKSSFQ GYLQNNSQTRQYKALRNHLLET TPKSEHKAVLKRLKEEQTRKLA ILAEQYDHSINEMLSTQAVSLF LGQNKFSAFLPPP*AVSEQLCA HSLV

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8549	38917	A	8606	1051	1875	SDQLTAHLLNCVEVAELQFLHR FMLSFPIIHHHLRLFTAPAQDASL VPLKGDILGVKLSGDDGRGKP AQHLFLSGLSSQQQLPVLPQS CQSLCVHHPAVVVNLDHGAC VSCLPDLG*RQSCGSLAARSC GQSPGVWCLPSGSGRSSTLCRC H*GRSWTPGAPS**TPISSPRRSP GPCAASPGARGCPPAASPPAGS PGTEAPAAPAPGPYGSQPPGAL SSRCDSPCPLRRRAPGAHHTP RCPSVVARCRGVRPRGSSCSMS TSLTRSCSKL
8550	38918	A	8607	714	2148	MPAVAKSKFINRSKRRMCPQV LRSASPIQEGERKISANENSLAVR STPAEDDSPGDSQVKSEVQQPV HPKPLSPDSRASSLSESSPPKAM KKFQAPARETCVECQKTVYPM ERLLANQQVFHISCFRCSYCNN K\LSLGTYASLHGRIYCKPHFNQ LFKS\KG\NYDEGFGHPRHKDLI GQAKMKTEEILER\QPQLANAR ETPHSPGVEDAPIAKVGVLAA MEAKASSQQEKEDKPAETKKL RIA WPPPTELGSSGSALEEGIKM SKPKWPPEDEISKPEVPEDVDL DLKKLRRSSLKERSRPFTVAA SFQSTSVKSPKTVSPLIRKGWS MSEQSEESVGGRAERKQVEN AKASKKNGNVGKTTWQNkes KGETGKR/R*GKVHSLEMENEN \FV\ENGARLPIEEDDNQLPPKQQ SSTKNPSLLEFGPSFVDNHLLK EFTTQNQKSQDVELWEGEVVK ELSVEEQIKRNYYDEDEDEEE
8551	38919	A	8608	1	4479	MCFSPKKLYKHEIHKLKDLTCL KPSIESPLRQNRSRSIEEEQKQE ENGDSQLILEKIQLPQWSISLNMT TDEHGNLVNLVCDIKKPMMDVY KIHNLNTDPPDIDINAMVALDF EYPMTQENYENLWKLIAYYSE VPMKLHREMLSKHPRVSYQY RQDADEEALYYTGVRQAQILAEP EWIMQPSIDIQLNRPQSTAKKV LLSYYNQYSQTIATKDTRQARG RSWVMIEPSRAVQKDQTVLEG GRCQLSCNVKASESP

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8552	38920	A	8609	1	9009	MDEFAPGKHLATSGDLFGDHN YGRRTYHTLEVKAEEHPAVS DPFQRQSLRALSPLEDLPPSSG LRSGLTKELLMIHGNEIPSPD GALRDLSSLQVFKFSYNKLRVI TGQTLQGLSNLMRLHIDHNKIE FIHPQAFNGLTSRLLHLEGNLL HQLHPSTFSTFTFLDYFRLSTIR HLYLAENMVRTLPAASMLRNMP LLENLYLQGNPWTCDCEMRWF LEWDAKSRGHSCRGCAHSLSH EIQLAKGFCEMLL
8553	38921	A	8610	1	4971	MKASGILKCKKDKEYEGGQLC AMCFSPKKLYKHEIHKLKDLTC LKPSIESPLRQNRSRSIEEQKQ EENGDSQLILEKIQLPQWSISLN MTDEHGNLVNLVCDIKKPMDV YKJHLNQTDPFDIDINAMVALD FEYPMTQENYENLWKLIAYYS EVPMKLHREMLSKHPRVSYQ YRQDADEEALYYTGVRAQILA EPEWIMQPSIDIQLNRQPSTAKK VLLSYYNQYSQTIATKDTRQAR GRSWVMIEPSRAVQK
8554	38922	A	8611	1	1283	LSFTTCSTFSTNYRSLGPAQAPS YG/SRPVSSVASVYAGTGNGS RISVSCSTSFRGSMESGGGLAAG MT/GGLAGMGGIQNEETMQSL ND/*LASYPDRVHRLETKNRKL ESKIWEHLEKKGPQVRDWSHY FKTIRNQRAQSLAITVDNACIVL QINNTHLAADDFRVKYETELA MCQSVESNIHGLCKVNDDTNV TRLQLETEIKALKEELLFMKKN HEEEVKGLQAQIASSGLTMEVD PKSQHLAKIMAAIRAQYDELA WKNGEELDKYLSQQIEESTTVV TTQSAKAGAAEMTLTELRTCV QSLEINLNSMRNLKASLENSVR EVKACYTLQMEQLNGILLHLGS ELAQTQAKGQCQAQYEALLN IKVKLEAEIATYCHLLEDGKDF NLGDALDSSNSMQTIPKTTTHQ RVDGKVSETNDTKVLRH

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8555	38923	A	8612	2	1365	RPQSLSPVLSLSPDSMSFTTRST FSTNYRSLGSVQAPSYGARPVS SAASVYAGAGGSGSRISVRST SFRGGMGSGGLATGIAGGLAG MGGIQNEKETMQSLNDGVASY LDRVRSLETENRRLESKIREHLE KKGPQVRDWSHYFKIIEDLRAQ IFANTVDNARIVLQIDNARLAA DDFRVKYETELAMRQS\ENDI HGLRKVIDDTNITRLQLETEIEA LKEELLFMKKNH\EEEVKGLQA QIASSG\LTVEV\DAPKSQDLAK\ IMADIR\AQY*RAGLGKNREE\ DKY\W\SQQIEVSTTVTTQSAE V\GAA\ETTLTELRRRTVQS\LEID LDSMRNLKASLENSLREVEA/R RTPLQMEQLQRGSLLHLESEL QT\RAEGQRQA\QYEALLEHQ GSSLEAE\ATYRLLLEDGEDFN L\GDA LDSSNSMQTIQKTTTRJ VDGKVVS\ETN\DTKVLRH
8556	38924	A	8613	170	399	
8557	38925	A	8614	141	287	LPSRRAGLGTCSPPCLSPPASR APVRPEPLR*APPPAPRRPVPST TQG
8558	38926	A	8615	356	574	
8559	38927	A	8616	552	770	
8560	38928	A	8617	158	368	
8561	38929	A	8618	1136	1410	
8562	38930	B	8619	1	631	
8563	38931	B	8620	321	2234	
8564	38932	A	8621	170	444	
8565	38933	A	8622	325	722	LIELRHLVFFVLLLFRDLQHIMA CNMRDAVRFVCFLVIFFREGL SRSSGA/DDRFLAGP*LLSRGAG LGTCSPPCLSLPPTWAP/AAAP ASLT\TPPPAPRRPVPSTTQGLRS ASARHGTGRQLHLQPRCGIH
8566	38934	C	8623	1	1449	
8567	38935	A	8624	326	626	LPSHGAGLGTCSPPCLSPPPLW AP/AAAEPQRQAPPPAPWCPVPS TTQGLRNASTRRTGRQLHMI WPFPAKLSSPATLPCEHCAPTT LTFSCSSNMQT
8568	38936	A	8625	2009	2227	
8569	38937	B	8626	182	1513	
8570	38938	A	8627	497	761	NHTSCLPLGP GTTAEELPSLVA GFGTCSPPCLSLPPTPWAPVRPE PPR*APPPAPQR PVPSTTQGLRN ASTRHRTGRQLHLQPRCGIH

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8571	38939	A	8628	218	855	GAGLGTCSPPCLSLPPTQRAPVRPEPPRRAPPPAPRRPVPSTTQGLRSASTRHRTGRQLHLQPQCGVH*VKPAGLLS LALETRTNPAA/DKHLWQSIISLQLKS DLLKEMLGSQTGNGNVQDVRLYLVKSETQKAIVSLDCV RKRYYRSSLSQLKL CDCWGQALFSSALTLDPKEVVV RDLEELSNYKTTL EGSGIFDSVARVREESEAEGT
8572	38940	A	8629	350	615	
8573	38941	A	8630	186	566	RLLSPAACRSGTMIFPSIHPSQC RMIGLGWKK*SSVHNATPWAP VPPEPPGRAPPPAPGRPVPLTTQ GLRSASARRTGRQLHLQPQCG IHWVKPAGLLSHEGPRLRSSSQ SDQEPTNSGHSGMCL
8574	38942	A	8631	656	874	
8575	38943	A	8632	415	634	LPSRGAGLGNCSPPCLSLPPTPW APVQHKPPRRAAPPPTPRHPVPS TTQGLRN ASA WRRSGRHLHLQ PQCGIH
8576	38944	A	8633	2	264	NKQPIWIPSRHLKYHEPDAKE EIPGGS*GPTCSH VETDAEEDP NCHEQHLSNTATHL GTDQEAVIDGRRKPEESRTTSHICRCRS

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8577	38945	A	8634	1	1743	MGQVWALVHSTLETFHTDEEE GEYN EVT EQV CLPAKAGSAAV DLCCTKA VSLLPGESPQKVPTG AGGPLPAGMTGLLLGRSSLNIK AVQVQTGVTDSDYNGEIQIVTS TSVPWKAKPGDHIAQLLIVPKK FARFEGTASSGKTKFLPRFRISF LMAAIVKPPEPIPLKWLTDKPI WTEQWPLSKEKLEALEDLITQQ LKKGHIAPTFSPWNNSPVFIKKK SAEQDCEWFVFTILA VNNLQLK PAKRFHWKVLPQGPQQPIWIP SRYLKPYHKPDAKEEIPFGSQG FPVAAMSRLTLRRTPTVTSNTH RTQPPTWGQIEKLPQMAEENLR KAGQPVTISNWILPRITKFKPIE GAENVFTDGSSNGKASYSGSK GPLTEGNQMADRLVAKVISNA RHFHNLT HVNASGLKRRYSIT WKEAKAI IQRCPCTCQVMLSAAE QHLQKSAAKTEAEKL VWWRD PITKSREIGKI ITWGRGYACVSP GPNQQPIWIPSKHLKPYHKPDA GEKIPGESR/ETPGCSHVKTDAE EDANCHEQHPSNTA THLGTDQ EA VT DGGRKPEESGTTSHNE*F ND SGDH HCLQQGL
8578	38946	A	8635	820	1344	PDGTT RDAGR GDLRSV SWETL RGCPA VRKDSIGWIRLSRTLKK NVHLCPL PRGQGLFVC PVTSSS PQHIS SHRGF WNI SKDAPMSWP GSYSCHNVVAPVGQQ*SRRA RMLRG LLSKAGHHS FCTDQAID LEITKFTFTWTD*VTLGQ*FMLS ES*SSCKPNSCCPVQCLVHSGG
8579	38947	A	8636	3	760	

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8580	38948	A	8637	1	1354	MGISCPGSSKMLNSRALPVLKL TQGALRDCKERANYTNFNIYK AVESQGKFVCVLYNGQQSPEY VMIPCTSVPSTGQEVPEDRGMR MVMKNKPNKPSKMQLSKSSKH LTNSVIVIAVGIFFSVTLQARDP QLDDAIEQLRGVCIRAWEKITS GGEQYPSFSAIKQGPKEPYIDFI ARLQESLKKMIADSAAQDIVLQ LLAFDNANPDCQAALRPIRGKA HLVDCIKACDDIGDGSSNGKAS YFGSKSKVFQTSYTSQAKAELV AVIEVLTAFDMPINVISDSSYM VYSTQLIENAQLRFHTDEQLMT LFTQLQTAFRSTMHPFYITHIRA R\HTPLPGPLTEGNQMADCLVA TAVSNARHFHNLTHVNASGLK CRYSNNTWKAAKAIIQRRPTCQ MVHSSSFTGGVNPQGLEPNSL WQMDVTHVPSFGRLAYVHVC VDTFSHFVWATCQSGES
8581	38949	A	8638	596	1820	
8582	38950	A	8639	275	1495	RLGSSLLEYT/LPDQQGNIATFE PPFKFGKAHSVDYIKACDGIG GPLTEGNQMADCLVANAISNA RHFHNLTHVNASGLKRRYSIT WKEAKAIQQCPTCQMVHSSSF TGGVNPRGLEPNSLWQMDVTH VPSFGRLAYVHVCVDTFSHFV WATYQSGESSACVS\KHPLLQC FVVVGIPAFIKTDNAPGYTSQA LATFFSVWNKIHITGIPYNQGQ AIVERMNLSLKQQQLQKQKGNN RDYR/TTP*MQLNALLTLNFLS LPKGQMFSAAEQHLQKPAKT KTEQLIWWRDLITKSWEIGKIIT WGRGYAYISPGQNQQPIWIPSR HLKPYHEPDA\RKRLQEDPEDP PSCSHVKTDAEEDPNCHEQHPS NTAIHLRSDQEAVTDGRRKPEE WSGTRTWWRPWSCR
8583	38951	A	8640	232	789	ERPWGPEGNSEGSFCPKGLE\PR TCLRGPAASAAAAGAEGRQDPP GGPWCSAPAAGDLGSPGVQSPG GGSPRGAQVAMSGSRRRAEP GVW GALQ*HRR*ARRMHSFPP SL/PLL*NG*SPLFLVSKCLTGSP LRSASPCPPAARSC*KHPDSSPG RGPGARQSPALHPALPSLARRA APGRSFPLTSRK
8584	38952	A	8641	1	149	

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8585	38953	A	8642	1	2541	
8586	38954	A	8643	1	989	MQRGQQATGSSANA W GILQPK WVQTGPDNKRMARNVLKYER LLAESPNHVVAEAVIQRPNIPH QTRDTYEGLCQTLGSQPTLYQI PSLYCSYETNSNAYLLLQPIRKE VIHLEPYIALYHDFVSDSEAQKJ RELAEPWLQRSVVASGEKQLQ VEYRISKSAWLKDTVDPLKLVT NHRIAALTGLDVRPPYAEYLQV VN YGIGGHYEPHFDHATSPSSP LYRMKSGNRVATFMIYLSSVE AGGATAFIYANLSVPVVRRVVQ/ WPGTS*AFDNQCQNAALFWW NLHRSGEGDSDLHAGCPVLV GDKWVANKWIHEYGQEFRRPC
8587	38955	A	8644	2	505	AWLKDTVDPLKVTLNHRIAAL TG LD VRPPYAEYLQV V NYGIG GH YEP HFDHATSPSSP LYRMKS GN RVAT FMIYLSSVE AGGATAF IY ANLSVPVV R VVQ/WPGTS*A FDNQCQNAALFWW NLHRSGE GDS DTLHAGCPVLVGDKWVA NK WIHEYGQEFRRPCSSPED
8588	38956	A	8645	298	401	KKSLLVRRSWRMKE LKKKIGQ Y*RKLGLRKKGKAI
8589	38957	A	8646	1	417	FRAAPAPESGGESVFGETHRL QGAMEKLQR/RWKEKVDLKE RVEKLELQFIHLSGQTD TIGRK YISQGA VSETQHWE/KEDIVRL AQDQEEMKVNLQELR/EQVLQ LVGDHKEGHGK/FLTIAQNPAD EPTLGAPIA QELGC
8590	38958	A	8647	2	430	AAVKPLGSAETAVPIARLGCR FSRSRCCR RRG SLLSFSAAK VAFFNSAGANAQEEQRVCCQP LAHPVASSQKKPEVAAPAPESG GESVFGETHRALQGAMEKLQR/ RWKEKVDLKERVEKLELQFIH LSGQTDTHNKISY
8591	38959	A	8648	1	2769	
8592	38960	A	8649	1	314	FVNLF EIPV RVVEFGATCRAVA EPEQQR*SPSARPRPPCPLLASV AA ALAAAAAAAAGGEAAYCL SPRRR*GAVSARPAGEPREPHE WDNRRSDFKRRRRGRDG
8593	38961	B	8650	46	307	
8594	38962	C	8651	1	4584	
8595	38963	B	8652	438	532	
8596	38964	B	8653	832	927	

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8597	38965	A	8654	320	1136	RIMETIANISSLSPVSLPLRVGL AEYLEMEED/DLDSEQEAPRPM PNIPGDLESREP\QVAFFNSAGA SAQEEQRVCCQPLAHPVASSQK KPEVAAPAPESGGESVFGETHR ALQGAMEKLQVTTLWKEKVD LKERVKEKLELQFIHLSGQTDTIV SERLGHRWGELPGHPRGPSI*A MSSCRKVHQPGGSVRDAALGE EDIVRLAQDQEEMKVNLQELR/ EQVLQLVGDHKEGHGK/FLTIA QNPADEP TLGAPVAQELGCAD EQGGFYPRSPPLDC
8598	38966	B	8655	97	235	
8599	38967	A	8656	1	2104	
8600	38968	A	8657	3	1107	FMTTDERKLFNHLKSPHLKYW VPFIWFGNLATKARNEGRIRDS VDLQSLMTEMNRYRSWCSSLF GYDWVGIPLVYTQVVTLAVYT FFFACLIGRQFLDPTKGYAGHD LDLYIPIFTLLQFFFYAGWLKVA EQLINPFGEDDDDFTENWCIDR NLQVSSLAVDEMHMSLPKMK KDIYWDDSAARPPYTLAAADY CIPSFLGSTVQMGLSGSDFPDEE WLWDYEKHGHHRHSMIRRVKRF LSAHEHPSSPRRSYRRQTSRSS MFLPRDDLS/HSQGPTGCALKK PPQGLTHLE/DNPASQKEAPRCT SAWESCPPSGRPARQALYRA*P HSPV*ELPPSKCH\GT*GIDHSSR STSahirGLPP*FRYLHREL
8601	38969	A	8658	3	397	
8602	38970	A	8659	346	474	

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8603	38971	A	8660	1	1344	MHSTWLCPARLLKELPFPQGL FPRLTIRASARTPPAALERVTRD PCAATCLDRGSLKGILGHSPFQ SPPVTSHCAENPNTLKAPPPYV GATSALVLSLGGPVTPWLSVEL SIRTFASSGLIYYMAHQNQADY AVLQLHGGRLHFMFDLGKGR KVSHPALLSDGKWHTVKTDYV KRKGFITVDGRESPMVTVVGD GTMLDVEGLFYLGGLPSQYQA RKIGNITHSIPACIGDVTVNSKQ LDKDSPVSAAFTVNRCYAVAQE GTYFDGSGYAALVKEGYKVQS DVNITLE\FRTSSQNGVLLGIST AKVDAIGLELVDGKVLFHVNN GAGRITAAYPEKTAATLCDGK WHTLQANKSKHRITLIVDGNA GWR*KSHTPQSTPVDTN\NPIYV GG\YPAGVKQKCLRSQTSFRGC LRKLALF\RGPVQVSFDFSRafe LHGFLHSCPGTES
8604	38972	A	8661	3	92	
8605	38973	A	8662	2	158	HTFPTFSSSPHLVMMIQPSSSSP PPPLPPPSS\PPPLPLPPSPPPPLL FFL
8606	38974	A	8663	21	471	DGPQDQPPHQPSSSSSPPPLPPPP PFPPLPLPPSPPPPLLFFCSDEA LLCCHTGVELFFVIFAYCSG/PE TEPAISPRYASSSGLNGFPLPRT PPAYA*IPSSGIHFNPNSLAIKPST TTLVRTPTTHHSRRPTITTQS STTAPSRLHP
8607	38975	A	8664	2	105	
8608	38976	A	8665	3	265	RKDLYANT\ALSGGTTMYPGIA DRMQKEITALAPSTMKIKIIAPP ERKYSVWIGGSILASLSTFQQM WISKQEY\DESGPSIVHRKCF
8609	38977	A	8666	3	757	NTP\AMYMAIQAVLSLYTSGRT TGIAMDSGDGVAHTVPIYEGYT LPHAILHLDLAGWDLTDYFMKJ LMECSYRFTTMAEQEIVCDIKE KLCNIALDFEHKMATGASSSL EKSYEVPDGQVITIGNEWF/*VP EALFQPS/MGMESCGIQETTFNS IMKCDVDICKELYAKMVLSGT TMYLGIADRMQKEITALGRPST LRFRFIAPP/ERRKYSV\WIGGSI LASLSTFQQ\MW\ISKQE\YDES GPLHPSTANC

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8610	38978	A	8667	3	171	CPLCRGNHWKVHCPSGR/MVP* VRSPQPDDPTTGQRVPAGASS CHHPH*APGTFNH
8611	38979	A	8668	1	325	SPSRTCYQCLLQGHF*KDC/TSE KPPPRPCLLCQGNHWKVHCPR/ VTKVLWVRSPQPDDPATGLRV PDD*EHTIRRAYALGKSAVTSK PPPYPARSRLNVRRLLCSLATN
8612	38980	A	8669	3	377	
8613	38981	A	8670	1	423	
8614	38982	A	8671	1	1659	
8615	38983	A	8672	1	1449	MVNNDTDRPKVQVEYKGETKIF YPEEVSSMVLTKMKEIAEAYLG KTVTNAVVTVPAYFNNSQHQA TKDAGTIAGLNVLRIINEPSAAD IAYGLDKKVGAERNVFIFDLRG GTFDVSILIIQDGIFEVKSGDTHL GEEDFDNRIVSHFIAEFKHKYK KDITIRDVKLDKSQIH DIVSIGG YTHIPKIQKLLQDIFNRKELNKS INLDEAVAYGAAVQAAILSGD KSENVQDLLLLDVNPLSGIEL AGGVMTV/LPVLIKHSSTIPTKQ TETF*QPIYSDNQPG\YEGERCAM TKDDNLLDKFELTGIPSAPHGV PQIEVTFDIDANGILNVSAVDKS VGKENTITTTNDKHRLSKEDM NIWSAEKYKAEDKRQRDKVSS KNSLEYAFHMKATVKEKLQ GKINGEDKQKILDKFNEVIKWL DKNQAAKKEFEHQQTTELEKVCNLIISKRYQSAGGMPGGMPGG FPGGGAPPSSGASSRPITEEV

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8616	38984	A	8673	18	1388	TRLQLLGFLWLPSLLEPGLHPS NHGPRGPAGVGD LGTTYSCVGV FQHGK\VEIIAN\DQGNRTTPSY VAFTDT\ERLIGDAAKNQVAMN PTNTSF*LPNGLIGR\RFD\DAVV \QSDMKHW\PFMVVNDAGRPK APS*NTKGETKSL\YPEEGVFLW V*PKMK\EICRS LT LGKT VTN A\VV VT VPS\VF NDS\QR QAT K DAG TIAGLNVL R\IN EPTAAIA\YG LDKKGLEQKR NRAHLLTWGG GTF\DV SILT IED\GIFE\VKSTAG DTHLG\GEEDFDNRMVNHFIAE FKRKHKKDISENKRAVRR LRTA CERA KRTLSSSTQASIEIDSLYE GIDFYTSITRARFEELNA DLFRG TLPV EKAL RD AKLDKSQIHDI VL VGGSTRIPKIQKLLQDF FNG KELNKSINPDEAVAYGA AVQA AILSGDKSENVQ DLLLDVTPL SLGIETAGGVMTVLIK RNTT I
8617	38985	A	8674	2	1559	RYLNWIGPTKGMSLKA FVQQ PHKSYWLTKLLPDNMEALQIR K*VPNILGTCAVSWLKGPCSDV AVKKFFIFSLGN YWEGN*LI*EH GYKVW*HSNSYLEPISPAQTPK KRTTSYFSTLLCLRLRSCLSFLK RIECYEVNYQPLDEELDR*EPAP QSQGLDLSPSF DIL*DHIQSRTV YYLMNIHVTPRSIYL CRHGESE LNIRGRIGGD SGLS VRG KQVG WAHTHQMGWLGC PRWAAGFP ILPSRPYPNAGVT LAAPV PTHDS VLPALPTRAGGQDET EPGLKAG PTGLPSAPPLEMGGGAPGKALS WMATPWCLPFCYVEVAL TCAA PTVYQAVVWVLPIHYLK CSPQT AGQMRQCSLDMRPERGR DVSE GTRDHVRELREFNLWLIPPCQG LLPTSHMKRTI QTAEALGV PYE QWKALNEIDA VRCMG*ISCVW G*LESGIPLRDQDKYRYRYPK GEVRFAGWPNA*DYS PVSSLQL NV\LLICHQASMRCLLAYFLIKS SGTTLISALGMFDGI
8618	38986	C	8675	16	206	
8619	38987	A	8676	157	413	ALVCS/SSLAI REMQIKTTMRYH LTPVRMAI IKKSGNNRCWRGC GEIGTLLHCWLDCKL VQPLWK SVW*FLRNLELEIPFDPAIPLL
8620	38988	B	8677	877	2126	

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8621	38989	A	8678	1	1731	
8622	38990	A	8679	2	1675	
8623	38991	A	8680	1	2142	MIIILDAEKAFDKIQQQPFMLKTL NKLGIDGTYLKTRAIYDKPTA NIIILNGQKLEAFPLKTGTRQGCP LSPLLNFNIVLEVLAQAIRQEKEI KGJQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGERHHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNP CSRIGRINIMKMAILPKVIYRFN DIPIKLPMTFTELEKTTLKFIW NQKracIAKtilSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPLTPYT KIHSRWIKDLNVRPKTIKTLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLKSFCTA KETTIRVSRQPTEWEKIFAIYPS DKGLISRIYKELKQIYRKKTNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSLVIREMQIKTTM
8624	38992	A	8681	1	1242	

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8625	38993	A	8682	14	1785	FDQVEERVSVIEDQMNEMKRE EKFREKRVIRNEQSLQEIWVDYV KRLNLHLIGVPESDWENGTKLE NTLQDIIQENFPNLARQANIQIQ EIQRMPQRYSRRTTPRHILNA HKRK*ERYKIDTSQLKELEK QEQTYSKASRRREITKIRAEK IETQKTLQKINESRSCFEKINKID RLLARLIKKKREKNQTDVIKND KGDDTTDPTEIQTTIREYYKHLY TNKLENLEEMDKFLDTYTLPR NQEEVESLNRPITGSEIEAIINS PTKKSTGPDRFTAECFYQRYKEE LVPFLLKLQSIEKEGILLNSFYE ASTILIPKAGRDTTKKENFRPI MNIDAKILNKILANRIQQHIKKL IHYNQVSFIPGIQGWFNICKSIN VIQHINRTKDNHTIISDAEKA FDKIQQPFMLKTLNKLGDGT LKIMTAIYDKPTASTILNGQKLE AFPLKTGTRQGCPLSPLLFNIVL EVЛАAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPVSAQT LLKLISNFSKISGYKINVQKSQV FPYTNNRQTESQIMSELLFTIAS KRIKYVGIQLTRDVKDLFKEN
8626	38994	A	8683	1	5127	
8627	38995	B	8684	1	1461	
8628	38996	A	8685	2	1879	
8629	38997	A	8686	1	1299	MKLPEEGSGIICCSAIFAVLQL PLVIHQRTGYGEDLQQPTDLQ LRDLTDHSSSPAMEQSWMEND FDELNRSRLQKANKLENLEETD KFLDTYTLPRLNQEETESLNRP TGSEIEAIINNVPTKKSPGPDG TAKFYQRYKEELRTVNKNHMII SIDAEKAFDNIQQPFMLKTLNK LGIDATYLKIIRAIDDKPTANIIL NGQKLEAFPLKTGTRQGCPLSP LLFNIVLEVLAIRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLINNFSKVSGYKI NVQKSQEFLYNNNRQTENQIM SELPFTIASKRICKYLGQLTRDV KDLFKENYNPLLNEIKKDTNK WKNIPCSWIGRINIMKMAILK VIYRFNAIPIKLLMIFFTLEK\T TLKCI*NQKRAHIAKPILSQKNK
8630	38998	B	8687	1	2187	

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8631	38999	A	8688	1	1698	MMGDFNTPLSTLDRSMRQKVNKDIQELNSALHHMDLIDYRTLHPKSTEYTFFSAPQRTYSKIDHIVGSKALLSKCKRTEIITNCLSDHSAIKLELRKKLTQNHSITWKLNNWLLNDYWVHNEMKAEIKMFETNEIKDTTYQNLWDTFKATLNQEEVESLNRPITGSEIQAMINSLGTKK/SPGPDGFTAKFY/P*E*HDCISRKPHRLSPKSP*ADKQLQQLSLRIQNQCSKITSILHQ*QTNREPNHE*TPIHNCIKDNKIPRSPTYKGCEGPLQGELQTTAQRNKRGHKQMEEHPMLMDRKNQYHENGHTAQGNL*IQCHPHQATNDFLHRIGKKYSVKHMEPKKSLHCQVNPKPKEQSWRHHTT*LQTILQGYSNQNSMVLVPKQRYRPMEHNRALRNNATYLPLSDL*ET*QKQEMGKGFP*IQMVLGKLASHM*KAETGSLPYTLYKN*FKMD*R LKC*T*NHKHPRRKPRQYHSGHRHGQGLHV*NTKSNGNKSQN*QMGSHTKELLHSKRNYHQSEQATYRMGENFCNLLI*QRANIQNLTQRTQTNLQ/RKKQPHQQVG
8632	39000	A	8689	1	5073	
8633	39001	A	8690	128	1407	EKKASDDQTPSYRRKFKPARKKLNTLKKI*TN/RITRITNREKCLKELMELAKARELREECRSLRSQCDQLEERVSMEEIQTIREYYKHLYENKLQNLEEMDKFLDTYTLRRLNQEEVESLNRPITGSEIVAIINSLPTKKSPGPDGFTAKFYQRYKEELIPFLLKLFQSIEKEGLPNFSFYEAISIILPKQGRDTTKKENFRPIFLMNINAKILNKILANRQQHIKKLIHHHDQVGFIGPMQGWFNICKSRNVIHHINRTKDKNHMIISIDAEKAFDKIQQPFLKTLNKLGIDETYLKIIIRAIYDKPTANIIINGQKLEAFPLKTGTRQGCPLSPLLFNIVLEVLAIRQEKEIKGIQLGKEEVKLSLFADDMIVYLENPIVSAQNLFELISNFSKVSGYKINVQISQAFLYTNYRQSAKS
8634	39002	B	8691	1	1443	
8635	39003	A	8692	1	1878	
8636	39004	A	8693	1	1479	

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8637	39005	A	8694	1	2091	MVFLEKISVGISRLSKQHPPFIR VALPLDADPTVSRIGSFQWVLG LADFRNEAVDPRDVQMCPEFIP SGGFVVFLTSGVKPQTFTVSITA LKGEPTQMRRNQKTNSGNMTK LGYLTPQKNHTSSPAMSPNQE IPDSPEKEFRRTEEASLTEGGTI NPIISWAVGNGSSKNLYHILGK GRKIFSSSGIKQKSIASGERQNF QRNDQTAFAVHENPLFCSHR CWYPGKQEKLKELMELKAK ARELREECRSLRSRCDQLEERV SVMEDEMNEMKREGKFREKRI KRNEQLSQLQEJWDYVKRPTLHLI DVPETLNAHKRKQERSKTDTLT SQLKELEKQEQTHSKASRRQE TKIRAELEKEITEKTLQKINESR SWFFERINKIDRPLARLIKKRE KNQIDAIIKNDKGITSDPTEIQT TIREYYKHLYANKLENLEEMD KFLDTYTLPRLNQEEVESLRPI TGSEIVAIINSLPTKKSPGPDGST AEFYQRYKEELLISNFSKVSGY KINVQKSQAFLYTNNRQMESQI MSELPFTITSKRIKYLGIQLTRDI KDLFKENYKPLLNEIKEDRNKC KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLRMTFFTELEKTTL KFIWNQKRARITKSVLSQLKNKA GGITLPDFLYYKATVTKTAW YWYQRDIDQWNRTEPSEITP
8638	39006	A	8695	1	3514	MELTKARELREECRSLRSRCD QEERVSAMEDEMNEMKREG KFREKRIKRNEQLSQLQEJWDYVK RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLARQANIQIQE QRTPQRYSLLRATPRHIIVRFTK VEMKEKMLRAAREKDRSTRQK VNKDTQELNSALHQADLIDIYR TLHPKSTEYTFFSAPHHTYSKT DHIVGSKALLSKCKRTEIITNYL SDHSAIKLELRIKNLTKSRSSTTW KLNLLLNDYW
8639	39007	A	8696	1	2091	

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8640	39008	A	8697	1	2781	MGKKQNRKTGNSKKQSASPPP KERSSSPATEQSWMENDFDEM REEGFRRSNYSSELREDIQTKGK EVENFEKNLEECITRITNTEKCL KELMELKTAKARELREECRSLRS RCDQLEERVSVMEDEMNE MN DGENGTKL ENTLQDIIQENFPN LARQANVQI QEIQRTPQR YSSR RATPRHII VRFTK VEMKEKMLR AAREKDFKPTKIKREKEGHYIM VKGSIQQEELTILKIYAPNTGAP RFTKQVLSDLQRDLD
8641	39009	A	8698	1	1584	MSISGTVRMSAKSKGNPSSSCP AEGPPAASKTKVKEQIKIIVEDL ELVLGDLKDVAKELK EQHW W HPISGDTATSICTVLESEKSKIK VTAFDVWLHLWGKGTDKQKD SSNFCRLKCPCLTALKRAVVL P ARSWRCENGQTASSSGSLTPDP RAANREAPPSSRGRLTPHTASDG ENGTKLENTLQDIIQENFPNLAR QANIQI QEIQRTPQR YSSRKATP RHII VRLTK VEMKEKMLRAARE KEI QT AIREYYKHYANKLEN L EEMDKFLDAYTLP RQNQEEVE SLNRPITGPEIVAIINSLPTKKSP GPDGFTA EFYQRYKEERHINRT KDENHMIISIDA EKA FNKIQQPF MLKTLNKL GIDGTYFKIIRAIYD KPTANII LNGQKLEAFPLKTGTR QECPLSPLL FNIVLEV LARAIR Q EKEIKGIQLGKEEVKLSLFVDY MIVHLENPIISAQNLKLISNSFSK VSGYKINVQKSQAFLYTNNRQ TESQIMSELPTIASKRIKYLG IQ LTRDVKDILFEEND

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8642	39010	A	8699	1	1722	MAGYPSEMKLPEELSGSNICCS AVFTVLQPLLLIPRQTGSGVDL RQTPTDLQLRVLTVRKNNKQ KRTSTPKPHLYVTIJKDQRSKKL TQNHSITWKLNNLLNDYWW NNEMKAEIKMFFETSENKGTY QLNWDTFKAVCRGKFIALNAH KRKQERSKIDTSQLKELEKQ EQTHSKASRRQEITKIRAEQKEI ETQKTLQKINESRSCFFEKINKI DRLLARRIKKREKNQIDAQN DKGDIRADPTEIQSTIREYYKHL YTNKLENLEEMDKFLDTYTLPR LNQEEDESLNRPITGSEIEAIINS LPAKKSPGPDRFTAEFYQRYKE ELHINRTKDKNHMTISVDAENA FDKIQQPFMLKTLNKLLEVLA RAIRQEKEIKGIQLGKQEVKLSL FADDIVVYLENPIVSAQNLKLI SNFSKVSGYKINVQKSQAFLYS NNRQTESQIMNELSFTIASKRICK YLGQLTRDVKDLFKENYKPLL NEIKDDTNWKWNIPCSWVGRIN IVKMGILPKVVYRFNAIPIKLP TFFTELEK\TTLKFIWNQKRARI AMTILS*KNKAGGITLP
8643	39011	A	8700	3	1033	
8644	39012	A	8701	1	1068	ANKLENLEETDKFLDTYTLPR NQEETESLNRPITGSEIEAIINNV PTKKSPGPDGVTAKFYQRYKEE LRTVNKNHMIISIDAEEKAFDNIQ QPFMLKTLNKLGDATYLKII IDDKPTANIIILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVVYLENPIVSAQNLKLI NNFSKVSGYKINVQKSQEFLYN NNRQTEENQIMSELPTIASKRICK YLGQLTRDVKDLFKENYNPLL NEIKKDTNKWNIPCSWIGRINI MKMAILLVYRFNAIPIKLLMI FFTELEK\TTLKCI*NQKRAHIA KPILSQKNKAGSITLR
8645	39013	B	8702	69	1055	
8646	39014	B	8703	1	2301	
8647	39015	A	8704	1	3189	

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8648	39016	A	8705	92	1139	ASAADTQANRVWSGPPANSR PAA\RVLTVRKTNKQKGPH QNPICTPSSKTKEIQTIREYYQ HLYTNKLENLEEMDKFFDTYT LPRLNQEEVESLNRPITGSEIEAI INNLPT/KKSPGPDGFTAKFYQS VGSSGQGNQAGEGNKGHSIRK RGSQIVPVCR*HDCISRKPRLS PKSP*ADSQLQQSLRIQNQCAKI TSILIHQ*QTNRREPNE*TPIHNG FKQNKIPRNPAYKGcerPLQGE L*TTAQ*NKRGYKQMEEHSM MGRKNQYHENHTAQGNL*IQ CHPHQATKNFLHRIGKNYFKV HMEPKKGPHCQVNPKPKEQSW RHHTT*LQTILQGYSNQNSI
8649	39017	A	8706	1	2199	
8650	39018	A	8707	1	2238	
8651	39019	A	8708	3	1889	RSMRQKVNKDTQELNSALHQAD DLIDIYRTLHPKSTEYTFPSAPH HTYTKIDHILGSKALLRKCKRT EIITNYLSDHSAIKELRIKNLTQ NRSTTWKLNNLLNDYWVHN KMKAЕIKMFFETNENKDPTYQ NLWDAFKA/EIQTTEKEYYKHL YANKLENLEEMDKFLDTYTLP RLNQEEVESLNRPITGAEIVAIIN SLPTKKSPGPDGFTAECFYQRYK EELVPFLKLQFQSIEKQGILPNSF YEASTILIPKPGDRDTEKENFRPI SLMNIDAKILNKILAKRIQQHIK KLIHHDDQVGFGIPGMQGWPNHIK SINVIQHINRAKDKNHIISIDA EKAFDKIQQRFMLKTLNLGID GTYFKIIIRAIYDKPTANIIILNGQ KLEAIPLKAGTRQGCPLSPLLFN IVLEVLRVIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVT AQNLLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSELP FTIASKRKYLGIQLTRDVKDLF KENYKPLLKEIKEDTNKWKNI CSWVGRINIMKMAILPKVIYRF NAIPIKLPMTFFTELEKTK\FIWN QKSAHITKGILSQKNKAGGITLP DFKLYYKATVTKTAWYWYQNI

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8652	39020	A	8709	1	1779	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYSNIDHIV GSKALFSKCKRTEIITNCLSDHS AIKLELRJKKKLTQNHSTTWQLN NLLLNDYWVNNEKAIEIKMFF ETNENKDTTDQNLWDTFKAVC RGKFMALNAHKRKQERSKMG TLTSQLKELEKQEQTISKASRR QEITKIRAEELKEIET/QKTLQKIN ESRTEIQTTIREYHKHYANKL ENLEEMDKFLDTYILPRLNQEE VESLNRPVTGSEIEAIINSLPTKK SPGPYGFTAEFYQRYKEELHIN RTKDKNHHMISIDAEKAFDKIQ QPFMLKTLNKLGIDGTYLKILR AIYDKPTANII LNGQKLEAFHLK TGTRQGCPLSPLLNFNIVLEVLR AIRQEKEIKGIQLGKEEVKWSL FAADDMIVYLENPIVSTQNLFKLI SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRK YLGIQLTRDVKDLFKENYKPLL NEIKAEDTNWKWNIPCSRAGRINI VKMAILPKVIYRFSAIPIKLPMT FFTELEKTKFIWNQKRAHIAKS ILSQKHKGAGGITLP

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8653	39021	A	8710	1	2093	MEITTNCLEHSAITLQLRIKKL TQNCTTWKLNYLLLNDYWV NNEMKEEIKMFFETNENKDTT YQNLWDVFKAVERGKFI HKRKQERSKTDTLTSQLKELEK QEQTSHSKASRRQEITKIRAE IETQKTLQEINDRSSFSEKLN DRPLARLIK DKGEINTNPTEIQTTIREYYKYL YANKVENLEEMDTFLDTYTL RLNQEEVESLNRPITGSEIEAI SLPTKESPGPDGFTAEFY/HEGN QERERNKGYSIRKRGSHIVPVC R*HDCLFRKPHHLSSKSHEAVK QLQQSLRIQNQWAKITSMPVH Q*QTNR KIPRNPTYEGCEGPLQGELQTT AQQNKR KNHYHEN HQATNDLHRIGKNYVN PKSLHC AT*LQ QIHRT DL*QI*QK PRQYHSGH NGNKN KRYHQ PI*QRAN QPHQKV SQQT GQGLHD*NTR TKELLHG GENFCNL TQLQ KRRHLC ANQN

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8654	39022	A	8711	3	1805	PLSTLDRSSRQKVNKDIQDVISA LHEAGLIDIYRTLHPKSTEYTFF SAPHHTYYKIDHIVGSKALLSK CKRTEITTNCLSDDRAIKLELRI KKLTQNYTTTWKLNNLLSDY WVNNEMKAIEIKMFFETNENKD TMYQNLWDTFKAVCRGKFIAV NAYKRKQERSKIHTLSQLKEP EKQEQTHSKASRRQEITKIRAEI KEIDTQKTLQKISVSRSWFSERI NKIDRLIARLMKKREKNQIDA IKNDKGDTIDPTEMQTTIREYY KNLYANKLENLEEMDKFLDTY ILPRLNQEEVELPNRPITGSENE AIINSLP/TKKSPGPDEFTAKFYQ RYKEELQG\IRQEKEREDTQLG KEEVKLLLFAEDMIVYLENPIV SAQNLLKLINNFSKVSGYKINV QKSQAFLHTNNRQTESQIMSEC PLTIASKRIKYLGIQLTRDVKDL FKENYKPLLNIKIKEDT\NKWKN IPRSWLGRNNIVKMTILPKVIYR F/NTLNFIWNQERARIAKTILSK KNKAGGITLPDFKLYYKATVT KTARYWKQNIKKGSVWPISLK SEKRGHRTRPLWKLCHNDVQG ELLKTIQFLFGSPLGHSSLPSA
8655	39023	B	8712	1	1743	
8656	39024	B	8713	1	1260	

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8657	39025	A	8714	1	1842	VPPTTCGNYGSTIQDEIWMGTQ NQTISVSEEMMFQAEELASAQK MWNQHHITPSKVDHIVGSKAL FSKCKRTEIITNYLSDHSIAKLK LRIKKLTQRNSTTWKLNNLLN DYWVHNEMKAEIKIFFETNEN KDITTCQNLWDTFKAMCRGKF TLNAHKRKQQRCKIDTSQLK ELEKQEQTSHSKASRRQEITKIRA ELKEIEAQKTLQKINESRSWIFE KINKTDRLLARIKKKREMNQI DAIKNDKGDITTNPTEIQTTIRE YCKHLYANKLENLEEMDKFLN TYTLPLRNQEEIESLNPITGSEI EAIIINSPLTKSPGPDGFTADEFY QRYKEEMIEKKAFDKSQQP LKTLNKLIGIDGTFLKIRRAIYDK PTANIIHLNGQKLEAFPLKTGTRQ GCPLSPLLFNIVLEVLA REIRQG KEIKHIQLGKEEVKFSLFADDVI AYLENPIVSAQNLLKLISNFSKV SGYKINVQKLQAFLYTNNRQTE SQIMSEFPFTIASKRICKYLG IQLT RDVKDLFKENYKPLLNIK KEDE NKWKNI PCSWIGRINIMKMAIL HKVIDRFS AIPFKL/PKD/FFTEL EKTLKFI WNQKRPRISK TILSK KNKAGGITLR

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8658	39026	A	8715	1	1593	MGKKQNRKTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSSELQEDIQTKGK EVENFEKNLEECMTRITNTKEKC LKELMELKTKARELHEECRSLR SRCDQLEERVSAMEDEMNEMK REGKFREKRIRKNEQLQEIWD YVKRPNLHLMGVPESDGENGS KLENLQDIQENFPNLARINKI DRPLARLIKKKREKNQIDTIKN DKGDITTNPTEIQTTIREYYKHL YANKLENLEEMDTFLDTYTLPR LNQEEVESLNRPITGAEIVAIINS LPTKKSPGPDSIAEFYQRYKE E/PADKQLQQSLSIQNQCTKITSI LIHQQQTNREPNHE*TPIHNCFK ENKIPRNPTYKGCEGLLPGELQ TTAQGNKRGYKQTEEHSMMLM GRKNQYRENGHTAQGNF*IQC HPHQATNAFLHRIGKNYFKVH MEPKKSPHRQVNPKPKEQSWR HHTT*LQTILQGYSNQNSMVLV PKQGYRSMEQNRALRNNAAYL QLSDL*QT*EKHAMGK/EPFI**
8659	39027	A	8716	1	1578	MGDFNTTLSTLERSARQKVNK DIQEGLNSGLHQADLIDIYKTVKP KSTEYTFFSGPHRTYSKIDHIVG SKALLSKRKRTETIITNCLSDHSA IKLELRRIKKLTQNRSTTWKLNN LFLNDYWVHNKMKAЕIKMFFE TNENKDTTYQTLWDTFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKVSRRQEI TKIRAELEKIEETQKTLQKINESKI QTIREYYKHYANKLENLEE MDKFLDTYTLPRLNQEEVESLN RPITGSEIEAIINSLPTKSPGP GFTAEFYQRYKEE\RPISLMNID/ AKILNKILANGIQHDIKKLIHDD QVGFIPGMQGWFNIRKSINVIQ HVNRTRDKNHMIISDAEKAFD KIQQPFLKTLNKLGIDGMYLK IIRAMYDKPTANIILNGQRLEAF PLKTGTRQGCPLSPLLNFNIVLEV LARAIGQEKEIKGIQLGKEEVK LSLSADDMIVYLEKPIISAQNLF KLISNFSKVS/GYKINVQKSQAF LYTNNRQTESQIM
8660	39028	B	8717	1	2982	

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8661	39029	A	8718	617	1155	SIAYQPKSPGPDGFTAEFYQRH KEELLISNSFK/VSGYKIDVQKS QAFLYTNNRQTESQILSEFPFTI ASKRVGYLGQLTRDVKDLFKE NCKPLLNEIKKDTKKWKNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPMTFFTELEK\TTLRFIWN QKRDHIAKSILSQKNKAGSITLP
8662	39030	A	8719	1	1827	MGKKQSRKTGNFKKQRHLSFS KGIAVLHQWQNKAQQRLLTFDE LREGFRPSNYSKLQKEIQTKGK EVENFEKNSDECITRITNTKKCL KELMELKAKARELREECRSLRS RCDQLEERVSGMEDEANEMKR EGKFGEKRIKRNEQSLQEIWDY VKRPNLRLIGVPESDGENGTLK KNTLQDIIQENFPNLARQANIQI QEIQRTTPQRYSSRRATPRHIIVR FTKVEGKNIKGSQRERAEIQTII REYYKHLYSNKLENLEEMDKF LDTYTLPSLNQEEVESLNRTITG SEIVAIINSLPTKKSPGPDGFTAE FYQRYKEEVVPFLKLQFQSIEKE VILPNSFYEARIIIPKPGRDTTK KENFRPISLMNIDAKILNKILAN RIQQHIKKLIHHDVQGFIPGMAI RQEKERKGIGLQKEEVKLSLFA DDVIVYLENPIVSAQNLKLISN FSKVSGYKINVQKSQAFLYTNN RQRESQIMSELPFTIASKRICKWL GIQLTRDVKDLIKE NYKPLLNEI KEDINKWKNIPCSWVGRISIVK MAILPKVIYRFSAPIKLPMTFFT ELEKTTFK\FLW\NQKRARIAKS ILSQKNK/AGGITLPDFKLYYKA

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8663	39031	A	8720	1	1551	MEKFLDTYTLPRLNQEEESLN RPITGSEIEAIINSLPTKKSPGPD GFRAKFYQRYNEELVPFLLKIF QSIEKEGILPNSFYEASIIILIPKPG RDTTKKDNRPISLMNAVKILN KILANQIQKHIKKFIHHQVGFI PGMQGWFNIRKSINVQHINRT KDKSHMIISIDEEKAFDKIHLPF MLKTLSKLGIDGMYLKIRAIY DKPTANIILNGQKLEAFPLKTGT RQRCPLSPLLCNIVLEVLAIR QEKEIKGIQLGKEEVKLSLFAD DMIVYLENPTVSAQNLLKLISN FSKVSGYKINVQKSQAFLYTNN RQTESQIMSELPTIASKRKYL GIQLTRDVKEFKENYKPLLNK IKEDTNWKWNIPSSWMGR\NIM KMAILPK/VTWMKLEIIVLSKLP QEQQTKHRMFSLTVFIEGRAL QNQKSETSQSRHPGATHSLPEYTI PGSSPSNFYWFTLGLKEEVTS WKREKKRKREGGKEGRKEG RKEGRKEGKKEGRKKGRKEVP
8664	39032	A	8721	1	1983	
8665	39033	A	8722	1	2436	
8666	39034	A	8723	1	3139	
8667	39035	B	8724	1	3558	
8668	39036	B	8725	1	2133	
8669	39037	A	8726	1	3051	MGDFNTALSTLDRSMRQKVNK DIQELNSALHQADLTIDYGTIH PKSTECTFFSAPHHTYSKIVHIV GSKALLSKWKRREIITNCLSDH SAIKLELRKKLNQNCSTTWKL NNLLNNYWTNK\KKREKNQI DA/IKNDKGDITTPTEIQTIRE YYKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNPITGSE IEAIINSLPTKKSPGPDGFTAEFY QRMNYISFKSTWKIKNAYSLA HSREL RDGGQ
8670	39038	A	8727	1	2706	
8671	39039	A	8728	1	2573	
8672	39040	B	8729	70	2029	
8673	39041	A	8730	81	385	
8674	39042	A	8731	301	515	SSWQAPAPVLGSSWASKK*MK KKYAAQQIEKQKSP*CKSIKCSP LRSASYAQLLSFSLSSCLCFSTC HSTLAWYCL*SSWQAPAPVLG SSWASKRSSLWKEPSRSLPSF SITARS*ACCCLCSSTEPQLLKA QYLLSHSRTRSFRLO

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8675	39043	A	8732	2	4207	DTHRLKIKGWRKIYQANGKQK KAGVAILVSDKTEFKPTKIKRD KEGHYIMVKGSIQQEELTILNIY APNTGAPRFTKQVLRDLQRDL DSNTIITGDFNTPLSTLDRSMRQ KVNKDIQELNSALHQADLIDIV RTLHPKSTENTFFSAPHHTYSKI DHIVGSKALLSKCKRKEIITNCL SDHSAIKLERIKKLPQNCSTIW KLNLLNDYWVHNEMKAEIK MLFETNENKDPTYQNLWDTLK AVCRGKFIALNA
8676	39044	A	8733	1	2770	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDELK EEGFRRSNYSSELREDIQTKGKE VQNFEKNLEECITRITNTEKCLK ELMELKTKARELREECRSLRSR CDQLEERVSAMEDEMNEMKRE GKFREKRIKRNEQSLQEIWVDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRTPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHLYANKL

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8677	39045	A	8734	3	2169	FKPTKIKREKEGHYIMVKGSIQ QEELTILKIYAPNTGAPRFTKQV LSDLQRDLDHTLIMGDFNTPL STLDTSTRQKVKKDTQELNSAL HQADLIDIYRALHPKSTEYTFFS APHHTYSKIDHIVGSKALLSKC KRTEIITNYLSDHSAIKLELRINK LTQNHS TTWKLNNLLNDYWV HNEVKAEIKVFFETKENKDTTY QNLWDASFKA VCRGKFIALNAH KRKQERSKIDTLTSQLKELEKQ EQTHSKASRRQEITNIRAELEK ETQKTLQKINESR\TEIQTIREY YKHLYANKLENLEEMDKFLDT YTLPRLNQEEVESLNRPITGSEI VAIINSLPTKKIPGPDGFTAIFY QRYKEELVPFLLKLFQSIEKEGI LPNSFYEASHIILPKPGRD TTKKE NFRPISLMNIDAKILNKILAKRI QQHIKKLIPH DQVGFI PGMQGW FNIRKSINV IQHINRAKDKNHMI ISIDAEKAFDKIQQPMLKTLNK LGIDGTYFKIIRAIYDKPTANIIL NGQKLEAFPLKTGTRQGCPLSP LLFNIVLEV LARAIRQEKEIKGI QLGKEEVKLSLFADD MIIYLEN PIVSAQNLLKLISNFSKVSGYKI NVQK\SQAFLYTNNRQTENQIM SELPFPIAS KRIKYLGIQLTRDV KDLFKENYKPLLNEIK\EDTNK WKNIPCSWVGRINIVKMAILPK LIGNCSKISGYKINVQKSQAFLY
8678	39046	A	8735	1	5166	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDELR EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELHEECRSLSR CDQLEERVSAMEDEMNE MKRE GKFREKRIKRNEQSLQEIW DYV KRPNLRLIGVPESDVENGTKLE NTLQDI IQENFPNLARQANVQI QEIQRM PQR YSSRRATPRHII VR FTK VEMKEKMLRAARQKAPH HTYSKIDHIVGSKAL

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8679	39047	A	8736	1	4553	MGRKNRKLD SRQHSYTSPQSRSHEDPAAVLQALSSSGVVIYQSLVAVQSPLAAPGCDGSRC EVRGLTVGSRYGSWRLAGCRDNE MV NACQSGWCYQNLTVLRGWKV LLEMTPHHTYSKIDHILGSKALLSKCKRTEIITNYLSDHSAMKR ELRIKNLTQRNSTTWKLNNLLNDYWVHNEMKAEIKMFFETNE NKDTTYQNLWDIFKAVCRGKFIALNAHKRKQERSKTDTLSQKELEKQEQT HS KASRRQEI
8680	39048	A	8737	1	2673	MVKGSIQQEELTILNIYAPNTGAPRFIKQVLSQLQRDLDSHTLIMGDFNTPLSTLDRSTRQKVNKDTQELNSALHQADLIDINRTLHPKSTEYTF SAPHHTYSKIDHIVGSKALLSKCKRTEIITNYLSDHSAIKLELRIKNLTQSRSTPWKLN NLLNDYWVHNEMKAEIKMFFETNKNKD TTYQNLWD AFKAVCRGKFIALNAYKRKQERSKIDLTSQLKELEKQEQT HS KASRRQEITKIRAELEIETQKTLQKINESRSWFFERINKIDRPLARLIK KREK NQIDTIKNDKG DITTDPTEIQTTIREYYKHYANKLENLEEMDTFLDTYTLPRLNQEEVESLNRPITGSEIVAI NSLPTKKSPGPDGFTAEFY/PESYL*QTHSQYHTEWAKTG SIPFENWHKTGMPSLTAPIQHSVGSSGQGNQAGEGNKGYSIRKRG SQIVPVCR*HDCLSRKP HRLSPKSP*ADKQLQQSLRIQNQCTKITSILIHQKQTNREPTHE*TPIHNCFKENKIPRNPTYKGCEGPLQGELQTTAQRNKR GHKQMEEH SMLMGRKNQYRENGHTSQGNLQIQCHPHQATNDFLHRIGK NYFKVHMEPKKSPHRQVNPKPKEQS WRHHTT*LQTILO QGYSNQNSMVLVPKQRYRSMEQN RALRNAAAYLHYSD**QT*EKQA WGKGIP\IYKM\AL\GKL AS\PM*
8681	39049	B	8738	1	2792	
8682	39050	B	8739	156	391	
8683	39051	B	8740	1	2824	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8684	39052	A	8741	3	4167	PLSTLDRSTRQKVNDIQELNS ALHQVLDIDLYRTLHPKSTEYTF FSVPHHNYSKIDHIVGSKALLS KCKRTEJITNCLSDYNAIKLELR TEKLTQNRSTTWKLNNPLLND YVVHKEMKAEIKMFFETNEEN DTTYQNLWDAFKAVCRGKFIA LNAHKRKQERSKIDLTSQLKE LEKQEQTSHSKATRRQEITKTRA ELKKIETQKTLQKINESRSWFFE KTNKIDRLLATLIKKREKNQI GARKNDEGAITT
8685	39053	A	8742	1	1107	MKVEIKTFFETNENKD DTTYQNL WDTFKAVCRGKFIALNAHKRK QERSKIDLTSQLKELEKQEQT HSKASRRQIQTIGEYYKHYT NKLENLEEMDKFLDTYTLPRLN QEEGESLKRPMMAGSEIEAIINS PTKNSPGPDRFTAIFYQRYKEE L/PDKQLQQSLRIQNQWEKITSI PIHQ*QTNREPNHE*TPIHNCFK ENKIPRNPTYKGCEGPLQGELQ TTAQRNKRGHKQMEEHSMLM DRKNQYCENGHTAQEEATAFCT HSRRESSRLGLLVANFRACHQE RFRRERSVPAGVHAEAHPCWE NRGREERHWEQHPGPETVLLQ AGGHVCDQGLHHGQPQVGQV PRGSRGHSGHFQLPSVQDRSWL
8686	39054	A	8743	1971	5654	RSPTAGRNTNYP SRDYYKHY A\NKLEN\LEEMDKFLDTYTLPK T/ITQEEVESLNRPITG\SEIVAVI NSLPTKKSPGPDGFTAKFYQRY KEELHINRTKDKNHMIISIDAEK AFDKIQPQPF\MLKTL\NELGID GT/YFFKII RAIYDKPT\ANIRLE WGQKLEAFFFEKLAQEQQGMPL LLNPLPQSNIIVVGKFLA\RAI\RQ EKEIKGIQVEKQEVKLSLFADD MIICLENPI\VS AQNL\LK LISNVS

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8687	39055	A	8744	1	4901	MTGSNSHTILTNNGLNSAIK RHRRASWIKSQDPSVCCIQETH LTCRDTHRLKIKGWRKIYQAN GKQKKAGVAILVSDKTDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSSHTLIMGDFNTPPLSTD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFFLAPH HTYSKIDHIVGSKALLSKCKRT EIITNYLSDHSAIKLELRINKLTQ SRSTTWKLNNL
8688	39056	A	8745	2	1887	SASVVPASGLRPSSTSLLTSRQP RFLGLLRSHPALLVAVPGDWD DLAVCCIVAPSHVCRMVFVMD RTLGISLPGLLKREEDACWVEA NINGRVLAQCNIDELKEMNM NFGDWHLFRSTVLEMRNAESH VVPEPDPRFLSESSSGPAPHGEPA RRASHNELPHTELSSQTPYTLN FSFEELNTLGLDEGAPRHSNLS WQSQTRRTPSLSSLNSQDSSIEI SKLTDKVQAEYRDAYREYIAQ MSQLEGGPGSTTISGRSSPHSTY YMGQSSSGGSIHSNLEQEKGKD SEPKPDDGRKSFLMKRGDVIDY SSSGVSTNDASPLDPITEEDEKS DQSGSKLLPGKKSSERSS\LFQA SLKLKGRLRLSKLP\SEEDEC GAEESDNTP\LLK\DDKDRKPEG KVERVPKSPEHSVEPIRTFIAK EYLS\DALLDNKGNSSDSWSVD PRESISPNSVSAQCKCADDLPD LKRHNLI\LEDDSHSGKRG\IPH SLSGLQDP\IARMSICSEDKKSPS RIASLD\PSSP\EEENW\P\ACQKA YNL\NRTPSTVTLNNSAPANR ANQNFDEMEGIRETSQVILRPSS SPNPTTIQNENLKSMTHKRSQR SSYTRLSKESPELHAA\SSSESTG

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8689	39057	A	8746	1	385	EGNEAQTCFWNTRRQLLASS DPSLSVSQRMDPSWRSSHSWP QPMPDSGRAPVRPHLAKLEED VWPCPQFHQTKAASGPPFVTFQ PANCFFPSVISFHLHCHTWSEQD RAYHPVYQMR**GSDVQLLEY EASAAGLIRSFSERFPEDGPELE EILTQLATADARFWKGPSSEAPS GQ/ALRK/SVWPCPQFHQTCAA SGPPFVTFQPANCFPSVISF\ICT AIRGVSKTGLTILSTR*GNGSSE KSLV
8690	39058	A	8747	2	2015	QDFLDSQNLSAYNTRLFKEVD GEGKPYYEVRLASVLGSEPSLD SEVTSKLKSYEFRGSPF\QVTRG DYAPILQKVVEQLEKAKAY\AA N\SHQQQML\AQYIESFTQGSIE AHKRGSRFWIQDKGPIVESYIG FIESYRDPFGSRGEFEGFVAVV NKAMSAKFERLVASAEQLLKE LPWPPTFEKDKFLTPDFTSLDV LTFAGSGIPAGINIPNYDDL\RQT EGFK\NVFAGGIVLGCGLTPRK REK\LTFLLEDDKDLYILWKGPS FDVQVGLH/ESLLGHGSGKLFV QDEKGAFNF\DQE\TRDPPQKRG EQIQSWNRTGETW\DSKFSTIAS SYE\ECRAESVGLYLCLHPQVL EIFGFEGADAEDVIYVNWLNM VRAGLLALEYTPEAFNWRQA HMQARFVILRVILLEAGEGLVTI TPTTGS\GDRPDARVRLDRSKIR SVGKPALERFLRRLQVLKSTG\DV TEGRALYEGY\STVTDAPPE CFLTLR\DTVLLRKESRKLSP NTHLEGNE/VSDVQLLEYEASR AGLIRSFSE\RFPEDGPELEEIFTQ \LATADARFWKGPS*GPHSGPS LRKIVVALPPKFHQTCAA\SGPS HSV\CVFRGWGGGGAGAWTLV L\PQLEGW*HNPLPICQHVSSL NCFPSVIL/SFICTA\IRGVSKTGL TILSTKMR\NGSSEKSLV
8691	39059	A	8748	1	519	
8692	39060	A	8749	786	864	
8693	39061	A	8750	1	468	

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8694	39062	A	8751	128	605	MTWGTVPFLHIFQMRCCHWSC QGIMRGWGLCSQTLNCLLLSK C*TCSRGGGQIWSRKFRLVRVE *G*GNFKTPELQQPGVPPGLPP PGSCFKCRKSGHWAKECPQPGI PPKPCPICAGPHWKLDCTRLA ATPRSPGTAAQGS LTD SFPDIRG LAVED
8695	39063	B	8752	1	615	
8696	39064	A	8753	1533	1767	PSPTCPAIYS*KGGWSQRHSQG ACYTCRKSGHWAKECPQPGIPP KPRPICVGPH*KSDCSTHLAAN PRAPGTLAQGSL
8697	39065	C	8754	84	329	
8698	39066	A	8755	911	1497	SQRKARDQRRKRNKRAASSIAK HKEPKRPILPSGKNSQEGVATH TKPLAQGVWLDP/NETNEIPN ANFRQQIRKLIKDGGLILRHRKPV TVHSRAQGWKSTLARRKGRHL GIESKKIDRHMYHSLYKLKG VFKHKRILTEHSHKLKADKAR KKPLADQAEARGSKTKEARKL REEHLQTKEEIKTLSQEEKAK
8699	39067	A	8756	34	280	EVIHAAIGEKGSY/NA**PWVE EQLTRQPLIHQPASLHSVY/RC RYHSLYLKVKGNVFKNKRILM EHIHKLKADKARKLLA
8700	39068	A	8757	1	692	AFL\QELCLKSSTGELFPFAAV AAALSMRLQKRLASSVLCCG KKNIWLDPNETNEITNANSRQQ IRKLIKDGGLIIRKP\VTVHSRLRC RKNT\LAR*KGRHMGIGKRKV PANA\RMP\EVKTWMRENEG CRR\LA\SED\TRES\KKIDRPHVVT ALYL\EVKG\NVFKNKRIL\MEHI HKLKA\DKARKKL\AD\QAEA RRS\KT\KEATKRREERLP\ARPRK REII*TLSKEEETKK
8701	39069	A	8758	46	131	
8702	39070	A	8759	5	447	PATELPGLPTRPGMLCIWRGAP DWPEGPPSSGELSSIQPTQGLHN CFQPDGARPAAPGPVPGQLGAL PWSCRPPAEP\LFMESLVQWPP GDGIRQ*\CEDAAELREPGVQRH QGSPG*VRTLPPLRGPSQVPA/G SSSSASPRSIPGSRG

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8703	39071	A	8760	1	201	MPNIYTMEYYAAVKKDEFMSF VGTWMKLETIILSKLSQGQKTK HRMFSLIGTRMKLETIILSKLLQ GQKNQTPYILTHRISFEDVRNY MPLAVIHSDESPILPLHEQQDAS ENGWIKDTERDADLEIYIVSGIG SFRWVLGLADFKSEAADPCGM KLQTFAVSVTALKGGASRVVH SSWWVCVLTDFRSEAAVLSVT ALEGGASRVAHSSRFVVSLTSG VKLQTFTVNATAHKGSADPKS EQHQDQLLQRACKHTFHSMKGE PRRVVAAGWGGAIKADSNNLI LLFQTIEKYCPWFDPDKGSVDLL DWDRVGTTLCQLMRDGVLPI SVWTDWALIRVALLPFQSGDTL QLPQVNADVEPLPLPRCIGGITG PEGGDPPGPSFHLYLVGVYYFLT CRSTWEQRKSPVALR**KLGPG GSPPSGPVMPPMHRGKGSGSTS ALTCS
8704	39072	C	8761	42	179	
8705	39073	A	8762	11	1713	PKTLKMGGTAGLVGMGFSTT G\RTAPSAPGRPHPCRGP/GSPG KAGLFLQRPRPLGTGL*GSAPRG PG*MGCP\GTGRGSNSRH*RGPP RRPQAS*AAPFQPGPLETWTPG *SQVPGAPSPCNFSYPHREVPP WGPVPPPAPHGSCGWALALPR RKRAVFSSWAPGQAGQLLDA ASVGAAP*QDIPPCRGSSAPSPC SPHPPPGLESGPK\PGAASWAGP QTPFSGRAQQLCQEGPAGAGN TSGRSA*AASAGTCDGPRSGGR VRTYPGLP*CRWTPGSRSSAAS SHICRMPSPGGHCTRLSMKRV GSAGGRQLQGRAPS*PARGT*Q RPRGGQSGLAAPLESRH*DGE *AFWRAETVRSSVQRRREFATG LSGPSS*PRWSTCSV/ASSPGG GDVAGPQEGPRSFHCLPSCL*V RPSPHPEGDAA\P*GALHK*RMH EEGRPGPCGGWGLV/GSWEPV QGCRRNLARWGRAWNCLQFPE *PPGGPGLADSGFIQTARLNFQ GWASVSFSIKRPGRAILRPCPTS EFLLPESFVSGNCSTERAMWP FWAPPRSAAPGAENFPCASVPCK

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8706	39074	A	8763	1	409	LTHLTAQNVPNLFARNERVICL FDTEFGPMAQILVGATIVGSIET VWAGTITPPREGIIKRWTWPAG ENDGSVALLKGQEMGRFKLGS TVINLFAPGKVLNEQLESLSV TKIGQPLAVSM*SKATQLGNPR
8707	39075	A	8764	1	1528	MTFVNAQAEDSQIFLYKRRYVP VEGYAPWLVSIGNASELERIHYE GMDDVILLDFLPKELGFDNMNM HILSFAPGANHGYIEHTFKEHG GATQAFAKENNKHAYKDTYG VSHITRHDMQLQIPKQQYEKYQ DTHDTPYCEPLPGETRLWGDT DVIGLFDAETDMNDVVAILENH PLLGAGFAHKIEQLEDKDWERE WMDNFHPMRFGERLWICPSWR DVPDENAVNVMLDPGLAFTG TIQTLSPVAMLDSSHTRRMRS TLNLYEITRMSTVSTSEHSMTY TLVQVDMKEAQKPDTASYRTF NEFFVRPLRDEVRPIDTPNVL VMPADGVISQLGKIEEDKILQA KGHNYSLEALLAGNYLMADLF RNGTFVTTYLSPRDYHRVHMP CNGILREMIYVPGDLFSVNHLT AQNPVLFARNERVICLSDTEF GPMAQILVGATNGGSIETPESE GATVDESFVVGPGVGFELL \QERSALSGRCVI*SFNSAKVRF QQSRPVKSA
8708	39076	A	8765	2	420	QNFKEIFVRPLRDE/VRPIDNDP NVLVMPADGVISQLGKIEEDKI VSNLFARDERVICLFDTEFWPN AQ/ILVGATIVCSIETVWAGT/IT PPREGIIKRWTW\QAIEDSWQ NLGRVAG*NKLPTELCNNFDW AQTLSRNRG

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8709	39077	A	8766	1	1130	MHFAKKEDVSEIETGSDGEKPK ARAGCLIGNSERLFSVTFCVQF QATLPLSYTIMKHKDGTSSVP ESIDASLEASQQNPAFLKTLTRS CSPSWPCSRNWPHLLIPLTCPA QAGATPQLPGLGPPGHLPMNQ PASSFPP\RPNAASQILTSTFHKP PPGSSLACCCPGPCDWQEDSQ *PTPACPSWPPWPTQLSPSAAGS PINHSPIQGFHSQLLS*RSPGTEE P*EANKLPPWTGHREPEPHPGL PGHPCAAG/MHRPLAPTTA\RPL ATLHGERQRHLHPGQRRRVPR APAESTEAPALWLHRPPECPEC SGHGPAALEQGAGMA*CRSCR HLPICFPGEAADAGSREGPHQEVR PRSKICQQPQAASFRLCHSIF
8710	39078	A	8768	179	1908	KKQNKSRCGNVNWAMRRALK MCIPYRNGHSIFLVMVKVERSKR RFALKLSVAEKNQMPRNATVIE NSAGYSYGKMAFS*PRICTQIV GPRIISTTAVIS/SQPATHHRATR GAIIRTAFCGCFGAGDTPINNG LSIRHTTRNFPNREGSKPANGQ MSAVALMDARSIAATAANGGY LTSASELDCWNVPEYAFDVTP YKNRKYQGFVKGATQQPLIYG PNIKDWPELGALTDNIVLKVC KILDEVTTTDELIPSGETSSYRS NPIGLAEFTLSRRDPGYVRSK ATAELENQRLAGNVSELTEVFA RIKQIAGQEHDPLHRVYRHCS RSGNCPSDVFDSKKDPVQDHRP QKRVTLIWGYDIHPQIEIIQTGD NFFQFRAIANNFGFLRFYQIRHF GLSGQHGVQIFTADVERGVGL RLQRFPVVKHAIQRQVEVIAV AHIEVQADIFTRSFRAIEANGHK VEQHFDRHPANGVRGTGGAVA ELMHPFAQLFRAGQVETAPCG GLGLIAQLFKVIRLQILRGESKK FSANLTALKPLPMVYEGDKV LKHLLRPKFNLPLPLVQPPKKML
8711	39079	B	8769	1	1881	
8712	39080	A	8770	2093	2287	

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8713	39081	A	8771	1	1358	MKINLKL/TNDSKVADGQFANI VVFLINWFYIHATTCEIDNGGV VADGFQASKA YSADSIVDYND AHYKTSVDQDAWGFVPGGD PWKKYEP AKAWSASTVYVKG DRV VVVDGQAYEALFWTQS DNP ALVANQNATGSNSRPWKPLGK AQSYSNEELNNAPQFN PETLYA SDTLIRFNGVNYISQSKVQKVSP SDSNPWRV FVFDWTGT KERVGT PKAWPKH VYAPYV DFTLN HHRTDSFRSKATAE LENQRLAG NVSELTEV FARIKQIAGQE HIDP LQTEIGSMV YAVKPGD GSARE QAASCQR VIGGLANIA EEYATK RYRSNV INWGMLPLQ MAEVPT FEVG DYIYIP GIKA ALDNP GTT FKGY VIHEDAP VTETL YME SL TAEERE IIKAGR IRHLL SDAMLA HLIRPT NRIESVG QIRH FRSIRHL LSDAMLA HLIRPT NRIEP
8714	39082	B	8772	21	1623	
8715	39083	B	8773	32	1850	
8716	39084	A	8774	1	1193	MSEVEAAAGATA VPAATVPAT AAGVVAVVV VPVPAGE PQKGGG AGGGGGA ASGP AAGTP SAPGS RTPGNP ATAVSG TPAPP ARSQA DKPV LATRV LPGTAK RKF NVRS GYGFT NRND AKED VFV HWTA VKRNN PRKFL RSVRD GET VEFD VVEGE KGAQ ATN VTG PRAAGV PMKGS RYAP NRR RFR *FIP RPPS VAPP PMVA EIPS AGTG PGSKGE RAED SGQR P RRWC CPPFFY RR FVR GPR PNQQ QPIELT GAFAC S QGT DR VEPK ETAP LEGHQ QQG DER VPPP RFR PRY RRP RPR RQ QPT TEGGD GET KPS QGP ADGSR PEP QR PRN RPF QF RRQQ APGP QQAP GPR QPA APEE APTEAI KP MIA HDGH APP NPS PTC CLEPSY QLVDVN

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8717	39085	A	8775	3	933	RHQESLCAPLEILQKKGCPCLE EPLQRQPCPCQSSEVTA**NISF RFASPGGN/SPWASH*APSVRG AAPAGPVGLEAAAGSEPHPGP/ PDAGGARPVPGGAGSRPRMVL/ SPRSAPHLGGGRSA/PAMRTGN PCTHTQVVTTSNLPNIP*GAKS HPI/VERPLS*KGTGPSAPQIATE NIYP*QLHGKGPLIRD*KIVPHD GAAGQSPLLPVRSCQRGYLPSA K*FFDALKIKFTLKFHLRRFSC TLSLRGLLVSPLLLPRVRLLAG WAHAWMHGCGGWEPRTQQR ASCQLPDRTKSkmrvkipaans SWLCH
8718	39086	A	8776	3	925	RGSEQIPPPSSIPGAP*KMLFPSG/ SSEPEHL*TVPASSLGCRPGGPV ASRSRPPRPPARAALRGPPASSP IRFP\GASPRAPPTS*MRSGAGS KT/TPRPGPSASGDRPRAPCVRG PGCGSEPAASSPTGPAG\VPRA R*GPGHGQTSPHGW*PSSMQQ RTRRCSPPPSVPGQFPLP/LSCS QVSPWTW*GLPYSLLIPVSSL WPEDRVPSFFVA/GPLPSFDNTS LPVEGGS*L/HPVCLLYVYQENS SKHIPYSCRGSRIFPFSQRQRVM AGQRKLCDHPGGLISKPLAWT RIPEAPVVAAMVEGGGGL
8719	39087	A	8777	144	503	
8720	39088	A	8778	15	427	
8721	39089	A	8779	1	1055	
8722	39090	A	8780	280	1480	FQTRMGISVATIPGTSCSWSMR ASEKEKDTFESTVQVSKLQDLI HRSKMARCRGRFVCVPLFKKGK HICRSATLAGWGELYGR\QATT YFFSGGADDAWADVEDVTEED CALRSGDTHLFDKVRYDIKLL RYLSVKYICDLMVENKKVKFG MNVTssekvdkaqryadftll SIPYPGCEFFKEYKDRDYMAEG LIFNWKQDYVDAPLSIPDFLTH SlnidwsqyqCwdlvqqtqny LKLLLSLVNSDGQTDskslVAI RTSVGVALAQTSgnalaygtk KAQEqsqdglihtslkpteilyl TVAYDWFLFGHMLVDRLSKGE EIFFCFNFLKHITSEEFsalktq RRKSLPARDGGFTLEDIC\C*DE RTAVAPPDLVCDCLPGHGEFPR

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8723	39091	A	8781	2	588	HSFFFNPNEKCSTKR*RLSASRF PP*PWSRLPSG/QPAGGASAGSP SAPRGTGRGAGSRPAHG/VQPP RAHPEAPCPACPRSVGGAR/RA PEPSSNLSGEAPASGDRDVPPPS PLAR*VPLGGREFGWYWANAA LRPGKTP/RSDRVSI RSPWS/PAG FSVPASWPRSTSGNRGPPSRPS RLSRTSGPLNRLGEPFDVQGPL
8724	39092	A	8782	1	198	
8725	39093	A	8783	1	275	MAGAPAPASLPPCSLISDCCAS NQRDSMGVGPSEPGAGYNLVP VIEKRSIRVGVTGFSRCCPSPLSL TRKGNSLTPWASQVRQCLALL QLAH
8726	39094	A	8784	349	478	KLSKFPYTEELSSGLYGIGSLCP HKYNCLVSSHSRCKN*VTGY
8727	39095	A	8785	1	325	FSEGNSYLVGIMHPLKAMLPGL QQQTETFPPPGLM/PCRLQQQ SHLLTLRDCCASNQRDSVGVP SEPGAGYNLVVRRFLSLEKRSI WVRVTRFSSALNHELKVNDH
8728	39096	A	8786	113	313	
8729	39097	A	8787	2	1991	
8730	39098	A	8788	512	1178	
8731	39099	A	8789	135	1562	DTLVPTSQQDISRGLEGNLNSC PT*Q**RAPFLWCQ/PKAEGWT WIFNPEAEESLEPRSLISDCCAN NQRDSVGVPSEPGAGYNLV RSFLSPSEKRSVRGVGVTLSRCR PSPLSLTQKGPNPLTPCASQVRQ CLALLRLRHVYFYNGFWKDYG VASLTTILDVKVMTFALQEG KVAIHCHAGLGRtgVLIACYLV FATRMTADQAIIFVRAKRPNSIQ TRGQLLCEAQQSGAFSADVSGS HSPGEPVSPSFANVHKDPNPAH QQVSHCQCKTHGVGSPGSVRQ NSRTPRSPLDCGSSPKAQFLVE HETQDSKDLSEAASHSALQSEL SAEARRILAAKALANLNESVEK EELKRKVEMWQKELNSRDGA WERICGERDPFILCSLMWSWVE QLKEPVITKEDVDMLVDRRAD AAEALFLLEKGQHQTLCVLHC IVNLQTIPVDVEEAFLAHAIKAF TKISHFVNQNPEVTVLL
8732	39100	B	8790	563	2017	
8733	39101	A	8791	108	194	
8734	39102	A	8792	1	164	

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8735	39103	A	8793	1	1068	MEESRYWGTGRNRREGLKLQ WAQPAPLFNIRQGPNEGDNQQ GSYWEALASIMQIHLVPSGLG MVTAFHCSWYLSTTATFPGVL NPALTEIKSGNYVHGFSILQV ADYKEFQTLLMITKATFHQKTQ CWACEEGVQQSFHCPCRMQAA ASVERYTELLKEFLFKEHTCDN QEPTSTLHYHSKLTVHIHVYSS RCTLPCQPSQAAQAEgisQpAp ACEDFVFAALAPP/ESG/RCPTL RLLGGLCTPTNARRTRHSTTA CWARAQWDSDLGPLKLSHR\PR VCGGTRAPGRQGCMGNQRLGT SNSEARDPGGLRVKHR/CEAIQ EPPNRSSRRQGAPLHSPPAY*MS SWRP*SFSKRHNLS
8736	39104	C	8794	78	331	
8737	39105	A	8795	129	1734	QWMHRMLDIFKGSSQHPSVPR VSSRPLGPQGYSLHHFGTQGI HSATPINTQGLQPAPMGTQ\QPQ PEGKTSAVVLA\DGATIVANPIS NPFSAAPAATTVVQTHSQSAST NAPAQGSSPRPSILRKKPATDG MAVRKTLIPPQPHDVASPRVES SMRSTS\GS\PRPAGAKPKSE\STC LWPLRS\LCPWRLYPIKIMISLPL PSLKLPSSPHRFQL*LQQPVPR HNQPLPFQFPLERSPSLHPSPPL\H HCTTSISHCGWQSFLRLGPSRS* N*SERRSRTNGYHEASF\SVPPL ATNTVSPSLALLANNLSMPTSD LPPGASPRKKPR\NNSMWISTEE GDMMETNSTDDEKSTAKSLLV KAEKRKSPPKEYIDEEGVRYVP VRPRPPITLLRHYNP\WKAA\YH HFQRYS\SDV\RKVEEK\KAMLQEI ANQKGVS\CR\AQGW\KVHLCAA QLQLTNLEHDVYERLTNLQE GIPKKKAATDDDLHRI\NELIQG NMQRCKLVMDQISEARD\DSMLK VLDHKDRVLKLLNKNGTVKKV SKLKRKEKV
8738	39106	A	8796	1	169	RPTRPPKSNKRQCLVFVTP\KEE EPVRNILEKFNTISGSKVRSLYL HAPPLLPLER
8739	39107	B	8797	156	398	

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8740	39108	A	8798	20	723	VWGGEFLPRIWFMLPTSHQWM LFSVFLGWGSCQWSCSHLLSCL WRAAFSEFPLGPEPGEGIGPELC LCFQMEAIELSVDPKSNKRQCL VFVTP\KEEPRVNILEKFNTISG SK/CTEVQRGVIVPGHIR*R**SI PRGF*FYSK*GRPDSAGGHGPG GVLQGEKGSACARQGGRFQE GAFAAQRETAGRRVGQRWCG DCFRTPVHRKSLSSPNFGGGFA GSEAVPCHLVLYLVW
8741	39109	A	8799	79	256	LRLLFFQNLLGGKSSMLWTA HPCPEGACSSSCTSLGSHLLLSS FPVLGR*PGPSGDH
8742	39110	A	8800	402	996	TFFKFPPDSGAQLASPRGSRIGA AGGAA\SSPEPSAALLSPWVVD GTGRPGAGGGARRGGSGCTGA HGGGGSSGM/VG/PAGPEPCPA GRQLRPGEKSSAAPLREPASAL AGPERGSHSAAAG*RAPQ\GRQ SGSPGRGGAESERGL*GLPSCC HLSPGSGAAAVPRSVGSRWPC GA\PTLATPPTSASFFSAATPEGP PLAS
8743	39111	A	8801	7	602	TFFKFPPDSGAQLASPRGSRIGA AGGAA\SSPEPSAALLSPWVVD GTGRPGAGGGARRGGSGCTGA HGGGGSSGM/VG/PAGPEPCPA GRQLRPGEKSSAAPLREPASAL AGPERGSHSAAAG*RAPQ\GRQ SGSPGRGGAESERGL*GLPSCC HLSPGSGAAAVPRSVGSRWPC GA\PTLATPPTSASFFSAATPEGP PLAS
8744	39112	A	8802	262	349	KEGEGGK\PD*PVRCMPPKPSG HWKHPGE
8745	39113	A	8803	2271	2863	GGASGVVRSSWWARGLAGFRS EAADLRGLPVELRASPAPCVRT PQPLGGR\GIGRPGAEAGGPGCWG GSVRTGAHGGAEAGAGSSLGQP RKGLPQCSGG/PEGLLKGCGQSG SPGRGRAQSERGL*GLPACCHL SH*PQGRQI*PRTCPTPFQSCTS DQGGPSGPAVSGSERQV*LHHQ *PGCRDYLCGPFCWEINPVWG

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8746	39114	A	8804	3	561	NCPSLLVESCFQECGSSIPFALPS TQVEHALYASER*QRAGSPHSP HSLSVPPLPGLPLWRHLRSPS/G PPLH*PP*ASTLTGGPQ*RLGSA GINVSSEPVSSSRPNV*SFPFPQY TVTLVKGWRSPKSSVLGS/ MVP*STKSEP*REPPJ*SLTGKA GERGEKGREKAIGSGR*GVAKC SDHVR
8747	39115	B	8805	298	380	
8748	39116	B	8806	1	1292	
8749	39117	A	8807	1	1224	MKPRTLAVSVTALKVARLEFV PSDVRMCSEFLPSGGLVVSLAS GVKLQTFAVSVTARNVDPKN SGAQLASPSSTRAASGAAC* SPSPPPCARTPQPLGGR\GTGCP GAGGGTRRGSGRTGAHGAAE GVGSGLGQPRKGPPTVQWWAE GLLKCRQSGSPGRGGAESKRGL *GLPASTLSP\PPG\ECAGKSENS HMNLNCSGSLGP GTGAHLPL GPDSGQPAETLLWGPCCGP TGLTGSQQTISLGCQGGQPRRE VKPPVPQRVSVLLVAVNPPPDS RCRVETDRPWRLCIQSCLCGTL KRDVLHSPSVVFNTTRGGTAE WSREDKDALLPEYALHMPFAV GFKLEYKEGVLGSNLAAGPEK ELCEAKRNQCPKSGVSHTSRPL KPEWSDFVAEIDESKLPDRS
8750	39118	A	8808	1	1298	ESLRAGSFQQEIQPELAPLIILRG FGTWPGWSFQATGFCVGVRGS PGSGFRGCGAYRAP*SFRTQLW PWQPLQGLDPKPLKDALRPSPL GRACAEHHLCSADERPDLGFE GLQRWGGCRGSQGKPAVHQ WGRCGEGTGGGHTGSPPPRLTP P/PGPGSFRAQP GERRPAACGQ QRALGPMRPPAC/GPSPT*GCA LNPTSPPAPLV*GFIHIVAAFCSF VTPVSKSHSQLGGELRVAGSD \GGRWGERENTQGSTLPPSPAS SPGSPSPDPATPPGPATPGLIDIL LLLPMVASSRKHDFSGFSRLP PQGEFFQ*GPTGWQS WVWPLD PSYLGGCQGGCGQGPRTGRRG ASSHCCVPAAP/GLSMDCSRGS GGSPRSPPWALLGDLPSSLET VCLVMMFPCPIWMASEFAMEI QLLGPFWQIMLIGLCW

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8751	39119	A	8809	2	662	RIPLLVTRLKINEKVLQVLTNIF LFHDFSVQNFIKGLQLSLLEHFY SQPLSVLCNLPEAKRRINFLSN NQCENIRRLPSFRRYVEKQASE KQVALLTNERYLKEETQLLEN \LHVYHMNYFLVLRCLHKFTSS LPKYPLGRQIRELYCTCLEKNI WDSEYYASVLQLLRMLAKDEL MTILEKCFKGFKSYCENHLGST A*RIEEFLGQFQSLDEPRGRR
8752	39120	A	8810	326	1215	NPIHGNFIFMLDHSLKNVQDQE*TLM*/HYGPQVVTMCQCSFIE RNKRIPVVQGIRRGRGHVQWG RYVEKQASEKQVALTSERCL KKETQLLENLHVYHMNYFLV LRCVHKFTSSLPKYPLGRQIRELYRTCLEKNIRNSEEYASVLQLL KMLAKDELMTILEKCFEVFKSS CEKHLGSTAKRIQEFLAQFQSF DETKEENEALKREEGCIPNITPDI CIAYKLYECRRLINLVVDYSQA FATILTAAEKM DANSTSSEEMNEIIHARDIRAVS EIIYAWCIRTVFELELLGFPIKPTK QKTDHVARLT
8753	39121	A	8811	70	613	SLEMKELRRSKKQTKEVLRE NVVNFDCLVREYLLPPETQPL HEVVYFSAAHALREHLNAAPRI ALHTALNNPYYYLKNEALKSE EGCIPNIA\PDICIAYKLHLECSR LINLVWDSEAFATVVTAEKM DANSASSEEMNEIIHARDIRAVS ELELLGFPIKPTKQKTDHVARLT WGGC
8754	39122	C	8812	598	762	
8755	39123	C	8813	138	296	
8756	39124	A	8814	1	395	

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8757	39125	A	8815	2	1289	DDLCALAFKVLHDKQRGPTGF YAPFNSRPL*KPQLAHSIILMET ATERISRLLLPFADQHVEIPSLT AGNIALTVGKHTATGDTIVSS KSSAL\LQLVEPNGREKRSTDK TMKAERLLLGSRGFQEPVFFC TIGTPITV*GSQIWEHAFEMSFS VRIPVLKVRLDPDSGQTV\LCG MGELHIEIIHDRIKREYGLEYL GPLQVAYRETI\NSVRATDTLG *EL*GDKRHLVDLLGSGKARPI ETSSVMPVIEFEYAESINEGLK VSQEAIENGIHSACLQGPLLGS IQDVGNYLYIP*QIHPWAPSTTY DFCLCLKMPCKKALERKADKQ VLEPLMNLEVTVARDYLSPVL ADLAQRGNIQEIQTQDNKV VIGFVPLAEIMGYSTVLRTLTS SATFALELSTYQAMNPQDQNT
8758	39126	A	8816	545	849	LAIHLSSL\SRHDDEATRTSTSE GLEEGEVE\GETLLIVES\EDQAF S\VDLSHDQSGGISLNSDEGDVS WMEEQLSYFCDKCQKWIPASK ELLNSFDLSIPV

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8759	39127	A	8817	1	2395	MDSSIHLSSLISRHDDEATRTST SEGLEEGEVEGETLLIVESEDQA SVDLSHDQSGDLSNSDEGDVS WMEEQLSYFCDKCQKWIPASQ LREQLSYLGKDNNFRFTCSDCS ADGKEQYERLKLTWHQVVML ALYNLSLKGSGRQGYFRWKED ICAFIEKH*TFLLRNKKTSTCR STGAGCLSVGSPMYFR*GA*EF GEPRWWKLVHNLPPLTMKPERE KTAASTLNIFAASKPTLDPIITVE GLRKRA SRNPVESAMELKEKR SRTQEAKDIRRAQKEAAGFLDR STSSTPVKFISRGRRPDVILEKG EVIDFSSLSSSDRTPLTSPSPSPS LDFSAPGTPASHSATPSLLSEAD LIPDVMPHQALFHDDDEMEGD GVIDPGMEYVPPPAGSVASGPV VGGRKKVRGPEQIKQEVESEEE KPRDRMIDSEDTSNTSLQTRA REKRKPQLEKDTKPEPRYTPV SIYEKLLLKRLEACPGAVAMT PEARRLKR\KLV RQA\KRD RGL PLFDLDQ\VVNAALLV DGIYG AKEGGISRLPAGQATYRTTCQD FRILDYQT\\$LPSRK GFR\HQ\T TKFLYRLVGSEDMAVDQSIVSP YTSRILKPYIRSDPHWTPEPDAP LDYCYVRPNHIPTINSMCQEFF WPGIDL\SECLQYPDFSVVVLY KKVIIA FGFMVP\DV\KYNEAYI SFLVHPN\WARRAGIA TFM IYHL
8760	39128	A	8818	3	364	GDSVPTAEGGDQVCVILSSVPQ TVWEPMFNKRACG/P*SP*SLSA TSIYPRELKAGTQKDTCPPVFR AVLFTTATQCPSTD AWMNKM WYSRTMECYSALKRKEIPP HAT ARHPMCLQFCRW
8761	39129	A	8819	292	508	ARPGDQATSGGQGTTFQHPLFC FELGGSQNPALQ*PFAAACPVG AD*TKFTFA FCCRLK*KRT CCL SLGSRC
8762	39130	C	8820	253	369	
8763	39131	A	8821	295	393	IYFGCLLGEPVVAEAGI\WDN DCVKKQLLHSW
8764	39132	B	8822	91	479	

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8765	39133	A	8823	1	544	ARHPDMKKVEDASILPCNVSL EYEKTEVNSGFFSKSAEEREKL VKAERKFIEDRVKKIELKRKV CGDSDKGFVVINQKGIDPFSLD ALSKEGIVALRRAKRRNMERLT LACGGVALNSFDDLSPDCLGH AGLVYETYSPACPKQSGLCILSS TLGEEKFTFIEKCNNPRS\VTLLI KGPNKHTLTQIKDAVRDGLRA VKNAIDDGCVVPGCWRGKW AMAEALI*P*APVLGRAQLGS PKHLLDAFAHYFPKVLCFRNSG FLTQGNIKLKFKAEHSRIQVQL VGVDLNTGEP\MVASRSKAVW GHT*LW*KKTSLPSTPCTW*IA\TNILLGLNEIMRAGMSFS*KGF VVINQKGIDPFSLDALSKEGIVALLRAKRRNMERLTACGGVAL NSFDDLSPDCLGHAGLVYEITS PACPKQSGLCILSSTLGEEKFTFI EKCNNPRSCHIIDQRTK
8766	39134	C	8824	636	1025	
8767	39135	A	8825	33	1505	KCISASVKVDFSDLLLNNNTS*S AFTPTRTQKSSSKLLRKESHYS GMMSIQEKSKENSSKVTKKSD DKNSETEIQDSQKNLAKKSGPK ETIKSQAKSSSESKINQPELETR MSTRSSKAASNDKATKSINKNT VTVRGYSQUESTKKLSQKKLV HENPKANEQLNRRSQLQQLT EVSRRLRSREIQGQVQAVKQS LPPTKKEQCSSTQSKSNKTSQK HVKRKVLEVKSDSLKD/GKSSN **SNKFS/SKGKNAR*NIR/SACA CSSQCTQGSEKCPQKTRRDET KPPVTSEVKRSKMATSVPK KNEMKKSVHTQVNT/KHNTPK KSTAISA*TK***AGASRKEQTR *YSPA\REEIAGEIESDNVEVKK ESSQMESVKEEKPSEIKLEETSV ERQILHQKGTNQDVQCNRFFPS RKTkpVKCILNGINSSAKKNSN WTKIKLSKFNSVQHNKLDQVS PKLGLFTNQFFTTSFRNASSSDS KYIFRDKAT
8768	39136	A	8826	1	394	AISR ALGR YVLF PCLI QDG IFVA HTAHAIL TSLED DSL *MF QPK T C WCL\AN* HDTLSVN M ETPHPSF QEEL SG LLL KML RSP IE ASKD KDKV KSNA VR ALGNL LHFL QP SHIE* PTFA QINE EA IQALIS

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8769	39137	A	8827	52	730	KSACDALSSILPEAFRNLPNDR QMLCITVLLGLNDSKNRLVKA ATSR\ALGVYVLFPCLRQDVIFV ADAANAMVMSLEDKSLNVRA KAAWSLGNLTDTLIVNMETPD PSFQGRVLWSPALENGYDQAL EASKDKDKVKRHA\AVRALGNL LHFLQPSHI/GKTPHLQKFI*GSL SRALNFLLF*QKLAMKVRWNA CYAMGNVFKNPALPLGTAPWT SQAYNALTSVVTs
8770	39138	B	8828	47	1576	
8771	39139	A	8829	2	2753	
8772	39140	A	8830	1	273	
8773	39141	B	8831	104	206	
8774	39142	A	8832	1	987	
8775	39143	A	8833	111	2187	DERRVGAADMFGRSRSWVGG GHGKTTSRNIHSLDHLKYLYHVL TKNTTVTEQRNRNLLVETIR SITE ILIWGDQNDSVFDFFLEKNMF VFVFLNIRQKSGRYVCVQLLQT LNIFENISHETSYYLLSNYYV NSIIVHKFDFSDDEEIMAYYISFL KTLSLKLNNHTVHFFYNEHTN DFALYTEAIKFFNHPESMVRIA VRTITLNVYKVVDNQAMLHYIR DKTAVPYFSNLVWFIGSHVIEL DDCVQTDEEHRNRGKLSDLVA EHLDHLHYLNDILIINCEFLNDV LTDHLLNRFLPLYVYSLENQD KVFLIIHHAPLVNSLAEVILNGD LSEMYAKTEQDIQRSSVLPTLSS LWQGSHLSLNQLQSGLHKCSS HLCGAQAAADSVTGEIPAIRSL EWLISAGSKARTFFFALKMLIGF WEKVDCEYQRRQVLSTRLQEA LPSNRLTDVAAVHSSCMLGFGS TAPRGSGWIGDPAAVHPLPGEL AEHLGSKGTTTVTKHQPKAKPS IRCFIKPTETLERSLEMNKHKGK RRVQKRPNYKNVGEEEDEEKG PTEDAQEDAEEKAKGTEGGSKGI KTSGESEEIEMVIMERSKLSELA ASTSVQEQQNTTDEEKSAATCS ESTQWSRPFLDMVYHALDSPD DDYHALFVLCLLYAMSHNK/G KSPEKEEGLSGTQSHPGKAGTF GKEGAEERKRAQV

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8776	39144	A	8834	1	3050	RNLLVETIR SITEI LIWGDQ NDS SVFDFFL EKNMFV FFLN ILRQKS GRYVCVQLL QTTLN ILFENISHET SLYYLLSNNYVNSII VHKFDFSD EEIMAYYISFLK TLSLK LNNHT VHFFYNEHTNDF ALYTEAIKFF NHPESMVR IA VRTITLN VYKVS LDNQAMLHYIRD KTA VPYFSN LVWFIGSHVIEL DDCVQTDEEH RNRGKLSDLVAE HLDHLHYLN DILIINCEFLNDV LTDHLLNR LF LPLYVYSLEN
8777	39145	A	8835	111	270	
8778	39146	A	8836	240	406	
8779	39147	C	8837	86	286	
8780	39148	A	8839	172	243	DPS*EARSMLLLFLPPDHSGLP H
8781	39149	A	8840	280	526	GRNAV VQS*AHCRSQ TPGPK*S SL/LVFPSSWTYRHMPH LAN* KKFFLHRDGGLDMLPRLV WNS WPQVILPPQPKALG LLL
8782	39150	A	8841	3	1785	VLDARNAGAGGLAGPAGVLRG RASRCDPGA AVGAGQGGARVR PGR AAPSPGPPGGA*CVPTDA GAGPGSAGARQPLPFAAGALS HSGHC*RGLRGPGSLASPAQAK AAWSGLLSPAAAGR DGGGRGH NPRDPPPLREHGP GIPGFHGDR G*ELYQCHLGEGG\GPD KPGS PCASCGLDGH WYR ALLLETFRP QRCAQVLHV DYGRKELVSCSS LRYLLPEYFRMPVV TYP CALYG LWDGGRGWSRSQVGDLKTLIL GKAVNAKIEFYCSFEH VYYVSL YGEDGINLN RVFGVQSCCLAD RVLQS QATEEEEPETSQS QSPA E EVDEEISLPALRSIRLK MN AFYD AQWKENGYYRAIVT KLD KSV DVFLVDRGNSENVDWIINMLL RFLTNQEQQGETISKVIAQAGY AKYQEFETKENILVNAHSPGHV SNHFTTESN KIPFAKTGE GEQK AKRENKTT SVSKAL SDTT VVTN GSTELVVQEKVKRASV YFPLM QNCL EIKPGSSKGELEV GSTVE VRVSYV ENPGYFWCQLTRNIQ GLKTLMSDIQYYCKNTAAPHQ RNTLACLA KRTVN RQWSRALIS

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8783	39151	A	8842	2090	2901	THLLVPGMQPLTWQMPFSPFLS ISPTRSNLPSAATPVIAQWA/HE QSGHGGGRDGGYTWAQQHGLA FTNTDLATVNAKIGFAYPVCDA SAKTTIRGLLECLIRCDGIPHSIA SDQARIHRSRNQEVEVEVAPLT ITPSDPLAKFLLSVPVTLRSAGL EVLVPGEGMLPPGNTRIPLNW KLRLPPGHFGLLLTLSREAKNG VTVLAGVIDLDYQDEISLLLHN GGKKEYARNTGDPLGRLLVLP CPVIKINGKLQQPNPGTTNGS DPSGMKV
8784	39152	A	8843	1	585	
8785	39153	A	8844	1	1697	MDKYFMIKTPKAMATNTTIDK WDLIKLKNFCTAKETMIRVNR QPIECKKMFAIYPSDKVILLFKM APKRNAEGLSTVSTCKKAAMC LIEKGCELVGPGVGPQTHPVVTS PVSECIIGIDILSGWQNPHTIGSLT GRVKAIMVAKDKLKPLELPLPG KIVNQKQHCIPGWIVEISATIKD LKDAVIGIPTLPPFNNSPIWPVQK TNGSWRMTVDYHKLNVVTPI AAAAPDVSVWLEQINTSPGTCL HWWPHGEFPRLVDRERTRTW FTDGSQAQYAGTTQKWTPAALQ PLSRTSLKESECFIGHHGIPHSIA SDQGTHFMAKKVRQWAHAHEI HWSYHVPHYPEAAGLIEKWNG ILKPQLQCQLGDNTLQGWDKV LQKALYA\LNQHSVYGTISPIAR IHRSRNNQEVEVEVTPLIITPTD PLAKFLLPVSTLHSDLLEVLP EGGMLPPGHTAMIPLNWKLRL PPGHFGLLLPLSQAKKGIVL AGVIDLDYQNEISLLLHNGGKE EYALNIGDPLGHLLVLPVPN VNGKLQQPNPGRITNGEDPSG MKVCVTPPGTTTTKKP
8786	39154	C	8845	1	720	
8787	39155	A	8846	57	261	WNF/CDPGGPMMKL\FISFKLKT ISSTFLSPTCLVL*RRPSRSASSL TVLCTTTRSSPLL GALV*TWP
8788	39156	B	8847	1	1158	
8789	39157	B	8848	1	2523	
8790	39158	A	8849	3	375	
8791	39159	A	8850	3	169	DFQPFTRVTVHWGKNDQTFR GLLDTGSELTLPDPKHHYGP PVKVG\AYGAQLL
8792	39160	A	8851	3	376	

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8793	39161	B	8852	1	592	
8794	39162	A	8853	1	319	
8795	39163	A	8854	1	1071	
8796	39164	C	8855	1	862	
8797	39165	A	8856	1	1488	MGRARRLTPVIPALWETEADGS RALTVETTVTQLQHLNTVGIIG FRGGRGQVAAVNCQKRDIQPF TRVTVHWGKRNDQTFQALVDT GLETLIPGDPKHHCDPPVKVG AYGHQVINGVLAQIQITVGPVG PWTHPVVIFTVPKCIIDILRW QNSHTGSLTGRMKAIMVGRAK WKPLELPLPRKTVNQKPYHTPV GTAEISATMKDLKDAGVVIPTT TLFNNSPIWSVQKTGGSWRMTV DYCMNLNVVS AVEAIVLDVVS LLEQINTS/P/WP*SGSCTAAFHH QMEVVHT*SGSSRS*RHN\CTN GLMGSFL*SVDRGREDYGLVH RRFFTIC*HHPKLDSCSTTVPF* DIPEGQL*REIFPPPVSWRQGWR LCMGSATWTFTHQG*PGYGH *VPNLPAEAETNTEPSIWHHSSG* SASYLVAG*LYGTSSIMERAEV CPHWRHLF*IWWVCLSLCF C*DYPWTLEMPYPPSPYSTKL CCCPRHLLY G*RSAAV
8798	39166	A	8857	1	1056	MSSVLLRLIYQLTQKTASFEGG PEQKALQQIQA AVQAALPLGPY DPANPMVLEVSVADRTVWSL WQVPIGESQQRSLSGFWSKVLPY SADNYFPFERQLLACYWALLET DRLTVGHQVTLQPELPIMNWV LSDPSSHKGVGHVHQHSIIKWK WYIRDQTRAGPEGTTTPVITQ/ WDAHEQSGLSGRDG\KGQRFV LTGVDTYSGYWFAYPAHNASA KTSIYGFTECLIHCHGIPHSIASD QGTLFTAKEVWQWAHAHGIH WSYHIPHPIAAGLIEWWNGLL KSQLQCQLGDN TLQGWGKDL QKAMYSLNQR LIYSTVSPISRIH GSRNQR VEV EVA PLTITLSDPL AKFFFLLP
8799	39167	B	8858	603	1785	

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8800	39168	A	8859	3	467	RIHVRPEITLTA/ANTARPY*IDP HDTLLSHSNFGSSDCPSSKMR QALELVRERAPELMIDGEMHG DAALVEAIRNDRMPDSSLKGSA NILVMPNMEAARISYNLLRVSS SEGVTVPVLMGVAKPVHVLT PIASVRRIVNMVALAVVEAQTL PL
8801	39169	A	8860	1	1878	
8802	39170	A	8861	3	684	MPNYLRFVRGLIDSSDLPLNVS REILQDSTVTRYLRNALTKRVL QLEAKLAKDDAEKYQTFWQQF GLVLKEGPAEDFANQEAIAKLL RFASTHTDSSAQTVSLEDYVSR MKEGQEKIYYITADSYAAKSS PHLELLRKKGIEVLLSDRIDE WMMNYLTEFDGPPFQSVSKVD ESENLADEVDESAKDAEKALT PFIDRVKALLGERVKDVRTHA GSGLVGENV
8803	39171	A	8862	2	393	LEFGKKLGNAADYFIANKIDQ PKIAVINCEAFEVCVQRRKGFE EVLKSRVPGAQIVANQEGTVLD KAISVGKLIISTPDLNAIMGES GGATLGAVKAVRNQN\RPEKL LFSVRI*QPKLLRSWKTIRC
8804	39172	A	8863	414	805	TPSRVEGNQEYPSLVYIP\SQAP\ WNM*TRDHKHGLNLVVQRVFI MTDAEQFMPNYLRFVGGLIDSS DLPLNVSREILQDSTVTRNLRN ALTKRVLQMLEKLAKDDAEKY QTFWHQFGRGIIIFTDSQFNR
8805	39173	A	8864	3	684	MPNYLRFVRGLIDSSDLPLNVS REILQDSTVTRYLRNALTKRVL QLEAKLAKDDAEKYQTFWQQF GLVLKEGPAEDFANQEAIAKLL RFASTHTDSSAQTVSLEDYVSR MKEGQEKIYYITADSYAAKSS PHLELLRKKGIEVLLSDRIDE WMMNYLTEFDGPPFQSVSKVD ESENLADEVDESAKDAEKALT PFIDRVKALLGERVKDVRTHA GSGLVGENV

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8806	39174	A	8865	1	624	AKLLRFASTHTDSSAQTVSLED YVSRMKEGQEKIYYITADSYAA AKS\SPHLELLRKKGIEVLLSD RIDEWMNNYLTEFDGKPFQPG AKVDESLEKLADEVDESAKEA EKALTPFIDRVKALLGERVKDV RLTHRLLTDTPAIVSTDAD*M\TP RMA\KCFGAGQKVPEVKYIFE LNPDHVLVKRAADTSEEAKF CVWGKNCVLGPF
8807	39175	A	8866	471	659	
8808	39176	A	8867	638	834	SSNTMMHFQIHMKQESTEQQT MTARR*Q*SEVDE*REDTTLAA RGRTEA*SARYQLT*QSVPSPH
8809	39177	B	8868	1	1383	
8810	39178	A	8869	4452	4896	SQHSEVFVCHMLSQPRAPGAG RYL/LQRKA/SEALEVEV/VDTW QADAVERDTRTLS\GGESFLVSL ALALALSNDLVSHKTRIDSLFLD EGFGTLDSETLDTALDALDN ASGKTIGVISHVEAMKERIPVQI KVKKINGLGYSKLESTFAVK
8811	39179	A	8870	31	185	GHRRRPFKRGRKSR*RGGSQRR VNEDARRSAWMRKKQRRLISK ISDRTARK
8812	39180	A	8871	1744	2670	

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8813	39181	A	8872	1	1680	MGFWVENGIEQYPVSEITIAVSS LVFSSASFAADLEDNMETLNDN LKVVKEKADNAAQVKDALTKM RAAALDAQKATPPKLEDKSPDS PEMKDFRHFDFILVGQIDDALK LANEDVFTRTLGADALYQFQNI RHVLRMQRIAAGEGNTLAFDT SVIQIVNDLVFHCFGKWLTGIY PPCAFVIATGAFMNTPGDKQGA TSAGAVDDVDRISNEITIGIPML TGYILLHVKGVRAKSSADHRR RPLASLATPPHKSWTCTLLFFR LPNVVCYANRJQQLTPILELTPQ SDELPHCEETVVLENWRQVHE QCLALHSQQQTLQQQDVLAAQ SLQKAQAQFDTALQASFVDDQ QAFLAALMDEQTLTQLEQLKQ NLENQRQRQAQTLVTQTAETLA QHQQHRPDDGLALTVTVEQIQ QELAQTHQKLRENTTSQGEIRQ QLKQDADNRQQQQTLMQQIAQ MTQQVEDWGYLNLSIGSKEGD KFRKFAQGLTLDNLVHLANQQ LTRLHGRYLLQRKASEALEVD VVDTWQADAVERD/TRTSGGE/ SFLRLR*VTRRHQLWLHPLRH
8814	39182	A	8873	3	823	
8815	39183	A	8874	287	426	YSGLSAVNPNVNDAYGVRFQLP SVNRIPVS***VKLAPPAHQIKRI SGKCRFIPLC*YAPPGFSSASTM RATGILSTASQPPGKLPMEEST AERRVGLPPLAKW
8816	39184	C	8875	1	2058	
8817	39185	A	8876	1	1989	
8818	39186	B	8877	1	3132	
8819	39187	A	8878	194	789	LTKLPSLFTFTRLSSSDNDLRGG DKRGGANGARLAL*PQTRTGD VTRRQPIRVCTVIEMFELLE/PIA DGFRNYRARLDVST/TESLLIDK AQQLTLTAP/EMTALVGGMRV LGANFD/GSKNGVFTDRVGVLS N/DFFVNLLDMRYEWKATD/ES KELFEGRDRRETGEVK/FTASRA DLVFGSNSVLFVRILGGFFCEYS LTERILH
8820	39188	A	8879	1120	1395	

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8821	39189	A	8880	1	629	THRPPKSGPPCAKIRTTHVTA KPLFPQTNPQTVRRMQGELY LVDESGQEVSALNYRRRKTR NNATAYPIRLFYLSVRPRAGSK SSRTIWILLAD/AKITPYERRQL VARIEA/LSTEIPAQVRLPLYQLW RDGQALQLQLAERQR/YTGG ADTKQDGATTTKDKQQR*TKG TRSQPSTREVQQQSTQKHSTSR PPNHSAQPSNSALVTRQ
8822	39190	A	8881	3	307	
8823	39191	C	8882	161	337	
8824	39192	C	8883	34	168	
8825	39193	C	8884	172	456	
8826	39194	A	8885	174	516	VSGVRCWIHSSAFPPVFPGFFLP VAFFDRPPARLYRMHTWSHME SQEPARLPHYAD*GQGSQKR\ DCSSGWAGLLFISPQFVLWSA EIEGLSNHITLGFRLSHGTTSAD GMTF
8827	39195	A	8886	1	2964	
8828	39196	A	8887	1	2724	
8829	39197	A	8888	3708	7098	
8830	39198	A	8889	115	339	
8831	39199	A	8890	445	634	VINTFSLHTMGSTS*HQGNGWR HLTLHPRNSKHPLEQPTPGVLQ LRPPTASLRQLLSNAGCSG
8832	39200	A	8891	1663	2234	GEGLRRGLFPGAEAQGRAETA GCLRRGRGAALALALPGSPGLSP WVEDAGGHRLHGRAVLRCA RAPPVPQPAGLAKVEPYSGVSS LTAFPQAPILLSSGGQSRAGERT TM*G*PEMEKL*SCIGEHQPC HR\KSRPAACPSSAMLFLETPR SSATLSSSSKGASGGWEPSAA PLGGSGQPFREMSQH
8833	39201	A	8892	202	542	
8834	39202	A	8893	564	1179	QHRLTYRTALWIHYRPDPKPL MSFRPGHQRLSVTSLLVCHGLL MVGTSGLVLVALPVPRLSSPSL PPVELL*HSVCSVCRGISCL*W RLWDQISDW\SRTEIQPPRPPSC CPVVASPGPGKGPQCNGDPKW KSCEAASVKGTSATGKSRPAA PCPPPSAMLFLETPRYSATLSSS SKAASGAREPSAAPLGGSGQPF REMVSQH
8835	39203	C	8894	321	539	

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8836	39204	A	8895	630	983	NLETNGKIPFENPWSKVPIRFGR QLLRRVCLTTGGQIPTGRWVT ATDSRGAGDYRLCLHHLR*PD GARLSAGSADCAANRRDVDGS GRGLPGRLSVQQPRRVRRGQP DVQPVSWPGC
8837	39205	A	8896	31	144	
8838	39206	A	8897	1	1775	MEISFTRVALLAALFFVGCDQ KPQPAKTHATETVLEGKTMG TFWRASIPGIDAKRSAELKEKIQ TQLDADDQLSTYKKDSALMR FNDSQLSPWPVSEAMADIVTT SLRIGAKTDGAMDITVGPLVNL WGFGPEQQPVQIPSQEIDAMK AKTGLQHLTVINQSHQQYLQK DLPDLYVDLSTVGEGYAADHL ARLMEQEGISRYLVSVGGALNS RGMNGEGLPWRAIQKPTDKE NAVQAVVDINGHGISTSG\SSRG D*DGYGQQLSRVIDPQTGRSIE HNLVSVTVIAPTALEADA WDT GLMVLGPEKAKTCSPGGLRGT ESLNTLRDRITQINGIDEVRMD DSWFARLAALTGLVGRVSAMI GVLMVAAVFLVIGNSVRLSIFA RRDSINVQKLIGATDGIFILRPFL YGGALLGFSGALLSLILSEILVL RLSSAVAеваQVFGTKFDINGL SFDECLLLLSSMVTFWCRNLF TSLLELWINHADKQDDNSCLSS ASVYLAKMMKVMLPMQLLS SGTGFYRDRLENSGGRYESRRS LTRQFREEPPTAPIPRECSQRIDFL LFETPSVSASSSAGFWLRFGSTA
8839	39207	A	8898	10	300	PTSIPRESSSGTWFQVASTTVLF SAILAGLSASAFCCLGPQIPQAR PNNSAVNSKNSRGIPRPQAE*P EQGGVYHHTAGVLKKLIPPSAR QHPDRC
8840	39208	A	8899	1657	2061	QMPGNNPAFSALLVAFKHQFAI AGGIFIKEVTFAIKTSQLLWFGQ PIFNNETTHQTACFLSVEADDL KFAVLLIEHRLDNLGIQFLRLH RFKILI*RQINHHIIALCCERLVQ LVGDDISPEFDELELRFSEVH
8841	39209	B	8900	26	1540	
8842	39210	A	8901	1	3396	
8843	39211	A	8902	1	3522	

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8844	39212	A	8903	1	105	SPQPDRHYRHHRQGPLVCIVIIF YFCAKRWMAAIL*TQHRHRL TTDDGKFAVANGSFS*RGLHH/ ATGLLRRFPPIC*GPLVCIVIIFY FCAKRWMAAIL
8845	39213	B	8904	1	960	
8846	39214	B	8905	1	2618	
8847	39215	B	8906	1	490	
8848	39216	A	8907	2820	3332	ATEGYRQQCRQFHPAAYDESP HRNRRRKWRPTYRCHPAPDHR TACLRSAFYGNAPGCVQTGPV RRSGAACASSPAVFLSGTSPWS FARTIALVRGRS/LKIDTNSPWA YFSALLM/F/DLLSHVHEWCGR YISPPRFAQTGETLPCRRHQGSR YSAYLSASRYPARRKWYFSPR
8849	39217	A	8908	3	716	EVDDTAKHRRRDSFPQ*DP/LM NIRYAPSP/HLPATVALTGAVIIT VLYLAGKRLFCSWVCPLNPIT DLANWLRRRFDLNQSATIPRHI RYVLLVVLVGSALTGTIWEW INPVSLMGRSLVMGFGSGALLI LALFLFDLLVVEHGWCGHICPV GALYGVLGSKGVITVAATDRQ KCNRCMDCFHVCPEPHVLRAP VLDEQSPVQVTSRDCMTCGRC VDVCSEDVFPIITRWSSGAKS
8850	39218	A	8909	3	323	
8851	39219	B	8910	94	2205	
8852	39220	A	8911	504	694	FNQLGRDWRTYYRKSDPPR/Q WLRHSPVR*VLKMVPMAIRGL LWMLSAQPAPAICSSRQTKMV
8853	39221	B	8912	1	2031	
8854	39222	A	8913	3	190	FIATPGYTGEAGYEIALPNEKA ADFWRALVEAGVNPCGLGARD TLRLDGDESYG/QEM/DETVSP* AMKLRCPMKKRPISGVWWK RVLTHAWARVTRCVWTGMN LMARDGETVSP
8855	39223	A	8914	1	621	MWPSVSHLTQMNIPIRFSEPSG AIEVPPDKVHELRLRLAQQGLP KGGAVGFEELDQEKFQGISQFSE QVNYQRALLEGELSRTIETIGPV KGARVHLAMPKPSLFVREQKS PSASVTVNLLPGRALDEGQISAI VHLVSSAVAGLPPGNVTLVDQ GGHLLTQSNTSGRDLNDAQLK YASDVEGRIQRRIEAILSPIVGN GTAQLDFAS
8856	39224	A	8915	1	2274	
8857	39225	A	8916	957	1067	

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8858	39226	A	8917	1	1242	MDGLNTDKSSVFHTPTDRLV1 CCPVADERMTTPRLLWDHEP SKPLFFTNYPVSAPFVGL/PPGK RPQGGFRAGNL*TSSKTIGRDL NDQLKYASDVE\GRIHRRIEAF LSPIVSGNIPAPAQVRAQLDFASK DQPEEQYRPNGDESHAALRSR QLNESEQSGSGYPGGVPGALSN QPAPANNAPISTPPANQNNRQQ QASTPSNSGPRSTQRNETSNYE VDRTIRHTKMNVGDVQRKLGII GQGKNEKPLKQLERVEEKPNG EGWEKKWQGKEVWKEDGTI YLQKNKLRAPTDSTLWFAKNG RVAKIAKALVEPANNFNPNGVD EDDTEKLLEVVPPEELTNEKLDL EQKCIHIYDDKRKQTQTPQDV FLKRVTSPQEPQPGPSGGIPEEG IVIIGEDSSVQVLAPEDLPVEKL
8859	39227	A	8918	256	1510	RRFGFRTGVTKEDAIGKRGV DQFFRQSQYRLVGVTVAGMPE LTRLFVQRFTQFRMRMAQRVH RNATREVDIRFPLLIPQARTFAT YRYKGCRSVNRYHPFIKVFTRN WREADLSKRV*TLLNDTGYQ EVITYSFVDPKVQQMIHPGVEA LLLPSPISEMSAMRLSLWTGL LATVVYNQNQQNRVRFESGL RFVPDTQAPLGIRQDMLLAGVI CGNRYEEHWNLAKETVDFYDL KGDLSEVLDLTGKLNEVEFRAE ANPALHPGQSAAIYLKGERIGF VGVVHPELERKLDLNGRTL VFE LEWNKLADRVPQAREISRFPA NRRDIAVVVAENVPAADILSEC KKGVVNQVVGWNLFDMYRGK GVAEGYKSLAISLILQ\DTSR\ L EEEEIA\ATWAKCVEALKERSQ
8860	39228	B	8919	47	156	
8861	39229	B	8920	139	993	
8862	39230	A	8921	1	284	MRRKRLIRPTVQAQVCRPDKTR KRRIRQWC/YGCRMRRKRLIRPI KYANRQAETA*GLDALHLSCSS HG*KGPT*SSHGFRGCKPQAL EASMWC
8863	39231	A	8922	1	813	
8864	39232	A	8923	1	1176	

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8865	39233	A	8924	3	618	AGGPNPIEMA*KSWDEIIIVK LEKDPQLKTQFLEVYPQGFSGE NITDAIAEFKTLITPDSPFDKW LRGDENALTAQQKKGYQLFKD NKCATCHGGIILGGRSFEPLGL KKDFNFGEITAADIGRMNVTK ERDKLQRKVPGRLRNVALTAPY FHRGDVPTLDGAVELMLRYQV GKELPQEDVDDIVAFLHSLNGV YTPYMRDKQ
8866	39234	A	8925	2	212	QYPGLDLHGAKGLGDGLAGKR YRQLLVSC\RHVLYRHPAGPGT RK*RRSGIRWLHRLCGNEPRGK LLVDQ
8867	39235	A	8926	1	640	
8868	39236	A	8927	1	704	MSSFQFEQIGVIRSPYKEKFAVP RQPGLVKSANGELHLIAPYNQA DAVRGLEAFSHLWLFVFHQ MEGGWRPTVRPPRLGGNARM GVFATRSTFRPNPIGMSLVELK EVVCHKDSVILKGSLLVDGT PVVDIKPYLPFAESLPDASASYA QSAPAAEMAVSFTAEVEKQLL TLEKRYPQLTLFIREVLAQDPRP AYRKGEETGKTYAVWLHDFN VRWR/VSP*ACSTFQLEP
8869	39237	A	8928	3	313	AQRGGI*RGSLATAGLRSFGGL HPIRTSQQFC\PVRGKPPTQAS VMVDAPHSTKLKHLRSISDCCT GSKNFKPVDLSLLGSMVGSTE LDHLAPWLQAPFPGE
8870	39238	A	8929	13	453	
8871	39239	A	8930	380	966	LRHA VLLTEGF/SYKPHAFALG FVEAPRGEDVHWMSMLGDNQKL FRWR CRAFTYANWPVLYML RGNTVSDAPIIGSLDPCYSCTD RVTLVDVRKRQS KTV PYKEIER YGIDRNRSPLNRS L YPREVPSTT LQPLRTPRCPGK NL ALA VNVST GTNGQKPESC GPGRCRMKKGE YKRTISGGRTIIRVHIARLLRTF

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8872	39240	A	8931	1415	2085	SQVPICQRSTSCRVKRLFSWKM AYRSALVTPWRVFRRNPAPR TSPVVFTGGDVFSRVMVRVKE T/FDSLAMLEFALDNMPDTPLL TEGFSYKPHAFALGFVEAPRGE DVHWSMLGDNQKLFRWRCRA ATYANWPVLRYMLRGNTVSD APIIIGSLDPCYSCTDRVTLMP QCIACGACACACPANALTIQTD DQQNSRTWQLYLGRCIYCPSS NNNGPVISFN
8873	39241	A	8932	1	1127	MKKRKTVKKRYVTALVIVIAG LMTLWRIRNAPVPTYQTLIVRP GDLQHSVLAGPKLARTSKNFA Q\ FIRVRYSAFSLAGEKKR**P RVHGQVNASSGRYRGTCRLG SDSRKKLVEILLAT\PNMEQRT QGIGILDPIARI\DLRFDPYAEY DNIPK\TLFTFTAADVFSRVMVR VKETFDLSLAMLEFALDNMPDT PLLTEGFSYKPIIAFALGFVEAP RGEDVHWSMLGDNQKLFRWR CRAATYANWPVLRYMLRGNT VSDAPIIIGSLDPCYSCTDRVTL VDVRKRQSKTVPYKEIERYGID RNRSPLNRRCTGEGWTRAWITL PLLIKPLTPLMIASFNFNNFV LIQLLTNGGPDRLLGTTTPAGYT

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8874	39242	A	8933	1	2466	MLRGVNVLADAVKVTLGPKG RNVVLDKSFGAPTTKDGVSVA REIELEDKFENMGAQMVK SKANDAAGDGTTATVLAQAI TEGLKAVAAGMNPMDLK RSRKGYGPARI RQELNQKGISR EATEKAMRECDIDWCALARDQ ATRKYGEPLPTVFSEKSRKLIA GVKRAFTHQAVNAGFCTQPAV SVIAGDFDRHGFNT RHFTFRLF DDFSFETTRFCPAQI HTLKHARP VLCFRTARPRLNIE AVGAVIF AREHTAELKLRQFFQQGAPQKA VISIPVPQVTGVVIE VTDKKNT LIKKG EVLFRLDPTRYQARVDR LMADIVTAEHKQ RALGAELDE MAANTQQAKATRD KFAKEYQ RYARGSQAKVN NPFSERD IDVAR QNYLAQEASVK SSAAEQKQIQS QLDSLVLGEHSQIAS LKAQLA EAKYNLEQTIV RAPSDGYVTQL IRPGTYAASLPL RPVMVFIRSET SLRTHCPGHADYV KNMITGAA QMDGAILVVAATD GMPMPQTRE HILLGRQVG VPYIIVFLNK CDM VDDEELLELV EMEVRELLSQY DFPGDDTP IVRGSALKALEGDA EWEAKILEL/R WLPGFLYS GTR ACD*QAVPAAD RRR/SSPSPV VPLLPVV*NA VSSKLVKKLKR WYPRDSEV YLYWR*N VPPTAG RRPCW*ERRCS AAWYQT*RNR

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8875	39243	A	8934	1475	2904	FWRAAAPIPDCWRSGAVKKQH VEVTQLDWTPPGRQYAGPIP RRGYCPLPRSGSVRWADL/FPP A/LD/LAGHPG/AKVANLVPKTT FIDGVDQTSSFLGTNGQSNRKA EHYFLNGKLAAVRMDEFKYHV LIQQPYAYTQSGYQGGFTGTV MQTAGSSVFNLYTDPQESDSIG VRHIPMGVPQLTEMHAPGLPLA SSMKRWIRRATGFIFGKEQFED VVVPVLGSKVNGVQFNELVAD SLGISQIRCRAIFLTVVFPVLH KQAFDLISLLLQQPGRNGGIDT AGHADDYFFCGFRHWITHDIEL QGGARQKDAADHYLAGDIESL PLATATFDLAWSNLAQWQCGN LSTALRELYRVVRPKGVVAFTT LVQGSLPELHQAWQAVDERPH ANRFLPPDEIEQSLNGVHYQHH IQPITLWFDDALSAMRSLSKGIG ATHLHEGRDPRILTRSQLQRLQ LAWPQQQGRYPLTYHLFLGVI
8876	39244	A	8935	1	920	MARADTVSPVMFMGLAAKPC WRDTEPNTRYRGPHVRNIQLT HDPRLDYRSI/LIDINDIGQTFHE RLHPDACLSNAILVHNKKGP LADGIVITPSHNPPEDGGIKYNP PNGGPADTNVTKVVEDRANAL LADGLKGVKRISLDESDGIRSK NDVIDTSDDDM**QCLSRRSN\ GHPGAKVANLVPKTTFIDGVD QTSSFLGTNGQSNRKAEHYFLN GKLAAVRMDEFKYHVLIQQPY AYTQSGYQGGFTGTVMQTAGS SVFNLYTDPQESDSIGVRHIPM GVPLQTEMHAYMEILKKYPPR
8877	39245	A	8936	471	668	
8878	39246	A	8937	1	1233	
8879	39247	C	8938	1	1548	
8880	39248	A	8939	1	1260	
8881	39249	A	8940	1	1468	
8882	39250	A	8941	261	596	RSESCCCGHEPDGPETRQP*PQR LWTCAYSPTGESERYFPRSDRK SDA*M*M*HRLVRTGARGDAKI WRTFANCLFRKIKKTYRRSQTG FYAPGGERRFLYAASRKRNRFF

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8883	39251	A	8942	2	1356	CLPGLKLVRLLYRLEERNARRT SAAVDA*RAGAWLAQCGLTV EQLAR\QVD\PDMTTRAHLYHC DHRLGPLALISEDGNTAWSAEY DEWGNQLNEENPHHVYQPYRL PGQQHDEESGLYYNRHRYYDP LQGRYITQDPMGLKGGWNLYQ YPLNPLQQIDPMGLLQTWDDA RSGALTWYGWDGDRLTTIQND RSRIQTIYQPGSFTPPLIRVETATG ELAKTQRSSLA DALQSGGED GGSVVFPPVLVQMLDRLESEL ADRKRATTWSHNHYANKKE GIKATGYRLAQTLGFKCEESSV FRVTRKSHSSFVWLDAVTPHP TSNVRA GCLMRRWRVLSGLHR CEVLHPHTPHPAYHAGCGVSL QRNIRHFFNLNGLRFQLRFRTIC CLRLVVVQPQHFAGVLQLAFC CRYITVQLASIRRNDRFQRLPL RAGNTIAKYFFQQI QHNRRGG
8884	39252	B	8943	1	1159	
8885	39253	A	8944	1	1304	MAETQQQFKKRMAASGLETRF DEVGNLYGRLNGTEYPQE VVL SGSHIDTVVNGGNLDQFGAL AAWLAIDWLKTQYGA PLRTVE VVAMAEEEGSRFPYVFWGSKN IFGLANPDDVRNICDAKGNS/IC RCDEGLRIYSSERPTNS/VVRL KPLLNCILNRA/DVLERITA WD KPDCH\TLHHHA DLSGHFPEEIG PLL FAGFSSA WQNGPSAFSWQK HGS AQTSSIAVLHRTPRHAGCL AQCDFTRAFFQIMLK NYLRKK RWKKKIHF PN ASGKSS/RAIPEG YVTTYGDVA K LGGIAPGRAPG GR/VQRQALLAEGAGTAEDGFT *VGEVEDAARDGP*TDAERTG* TYADAGRQDPQSAEDRQRANL HGNADR***RFASGGFH RGYHP RAAAGFC DHRKPACGNARRAG WPDRA*SKSSAYAFRYRYEHRL HAGRSG

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8886	39254	A	8945	1	1695	MRSDPDTSVNEIETKLSALLGS ETTGEILFDLLCANGPEWNRFV TLEMKYGRIMLDTAKIIDEQDV PTHILSKLTFTLRNHPEGVVMK NFEVLQPLQNSLSQLPLWVSER ILQQINQLTHYEPVIGIMGKTGA GKSSLCNALFAGEVSPVSDVAA CTRDPRLFRRLQIGEHFMTIVDLP GVGESGVRDTEYAALYREQLP RLDLILWLIKADDRALATDEHF YRQVIGEAZRHKMLFVISQSDK AEPTSGGNILSTEQKQNISRKIC LLHELFQPVHPVCAVSVRHPV VALLQQFRTRDDETHRHYHDS QHRLVDYTRTQYEPLVESRYL YDPLGRRVAKRVWRERDLTG WMSLSRKPKVTWYGWDGDRL TTIQNDRSRITQIYQPGSFTPLIR VETATGELAKTQRRLSLADALQ QSGGEDGGSVVFPPVLVQMLD RLESEILADRVSEESRRWLASC GLTVEQMQNQMDP\TEGTTAW Y/AEYDEWGNNLNEENPHQLQ QLIRLPGQQYDEESGLYYNRHR YYDPLQGRYITQDPIGLKGGW NFYQYPLNPISIDPLGLSMWE
8887	39255	A	8946	605	1395	SMSSLKNIRLSSASKQCAACSG WPAAAGIRGVSGGQQ*ARVSSS ANTATALSSRLLPGQNSVTVP A*RMNCVLRVTPL\SKNRGGKP APSGTEGKGLPEVQPGQL\RAH GLPVSENLLEQDFYASGPNQK WAGDITYLRTDEGWLYLAVVI DLWSRAVIGWSMSPRMTAQLA AGCPKPLWGTPSFPGPACGLAP SSAGVLPRGFVPAVWLDSEDPE EYVGSSDFLTQKMQSMKKVDLK KNRAATDADGQFSPRCCMPEK YAGSHN
8888	39256	A	8947	1	1914	
8889	39257	A	8948	1	4767	
8890	39258	B	8949	1	2294	

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8891	39259	A	8950	115	3551	NPALTRIVPAQQNLYTNTLLAA RIKQLTEQFELMLRQAQIDFA GKAHSLTEAQANTTQVSAERD RLFKNYQRYLKGSQAAVNPFS ERDIDDARQNFLAQDALAQIQS QLDSLNVNGEQSQIVSLKAQLAE AKYNLEQTIVRAPSNGYVTQVL IRPGTYAASLPLRPVMVFIPDQK RQIVAQFRQNSLLRAPGDDAE VVFNALPGKVFGKLAISPAV PGGAYQSTGTLQTLNTAPGSDG VIATIELDEHTDLS
8892	39260	A	8951	845	1213	DKGEIGGWAAQTHRGSHEQGA RRVPEDRNDARARRKNEEP\AAR PRTTNTRNGSRKGPERK/WADG RGHKAEAGRRKRRKRQ*KEEM RKIRQQESGGEKKRGLCGRPPG GGNNCMEGERRGRKR
8893	39261	A	8952	843	1061	NRPPPVCACHRQVVLPPVNR APAEKWQVPRVTLPGRQSTSW FAAVVYRN*YQYCALTAQRGR RSPRQLPHR
8894	39262	A	8953	1	682	MIRJPGCEDKLGADQQPAFVLY LEIDPHQVDVNVPACKHEVRF HQSRQLVHDFIYQGVLSVLQQQL ETPLPLDDEPQAPRSPENRVA AGRNHFAEPAAAREPVAPRYTPA PASGSRPAAPWPNAQPGYQKQ QGEVYRQLLQTPAMPQKLKAP EPQEPEALAANSQSFGRVLTIVH SDCALLERDGNISLLSLP\ITGIW CSD*H**PMIPRLLIPASVRSSSM VESAK
8895	39263	A	8954	1	1887	
8896	39264	A	8955	189	552	LFRGEKGARNEVLATRYYRQT VSGDFRHLHCLADQYALGGAY QF*AGLY*LHQAWEMNRGLQL LSDALGEQYAQHGNWRFLRNN DRFVFQILRSFEHDNSEDKPGP GMPPHGWRQFWGG

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8897	39265	A	8956	263	3549	TGGPSSPSSHWKTPVVIYWDGT ALRCVFVPVLGETGAQRKRISA RKGSLLTSCPQGALSEHCPTTP APLPSQRNNHWMENISPFRSVG VSASRCSES*MRPWNSRMPRLG RSQGDSSSAL/MSTGVAFRGRF LKGGLPQAPAVAAATPWLCQT GVAGETTPAVNVKYNVRVRVS EYISMHVHREVTARNVYVTQT RRPMTTFPTLAWETPHYHRRY GVSLLSSAWVQVGPPRYCRQT NALSNLPNFNLKGADTQ
8898	39266	A	8957	1	1799	MMRDRLINHAI RPACE*QLGA DQQPAFVLYLEIDPHQVDVNV HPAKHEVRFHQSRLVHDFIYQG VLSVLQQQLETPLPLDDEPQPA PRSIPENRVAAGR NHFAEPAAR EPVAPRYTPAPASGSRPAAPWP NAQPGYQKQQGEVYRQLLQTP APMQKLKAPEPQEPA LAANSQ SFRVLTIVHSDCALLERDGNIS LLSLPVAERWLRQAQLTPGEAP VCAQPLLIPLRLKVSAEEKSALE KAQSALAE LGMVNSTRFSLHE HPDAERSPGQSGEQRQQPAVD DYAIVDEYGRHYRRAVAGTL HVSVDGTTQTVFMYTWLSMA LIALPAFIFARVPNDTHQNVAIS RRKTESRNEVLA TRYHRQTVS GDFRHLHCLADQYALGAPIPD GTRRPILVNGAEVGAVIASPVE RLTRNTDINF DKKQQRQTSWLIV ALATLLAALATFLLARGLLAPV KRLVDGTHKLAAGDFTTRVTP TSEDELGKLAQDFNQRASTLEK NQTPITSRGHPRIFLARHPAPAP TTLTSLALKIIRSPAFLPDTASEC AMAIDCYILA ASTQAYKAASSL SLSVVLATSARFKTSSTS I WVK SSTNSCE
8899	39267	A	8958	1348	2190	
8900	39268	B	8959	1	105	
8901	39269	A	8960	1	781	
8902	39270	B	8961	1	1716	
8903	39271	A	8962	754	807	
8904	39272	A	8963	821	875	FFSLFFFISLASGLSIL*W*FVFL WDRW*YPLYHFL LHF DSSLFS SLLVLLVVYQFC

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8905	39273	A	8964	1	315	SGSVMPPALFFWLRIDLAMQAL FWFHMNFKVVFSNSVKKVIGS LMGTALNL*ITLGSMAIFTILILP YP*AWNVLVPFCVLFYFLEQW FVVLLEEVVLHIPCKLDS
8906	39274	A	8965	42	403	GLCSVPLVYISVLVAVPKLFW* L*PCSIV*SQVA/SIPPALFFWLRI DLAMWALFWFHANFKEVFSNS VEKVIGSLMGMALNL*MTLGN MAVFTILILPTHEGMFFHLFVS SFISLSSGL
8907	39275	B	8966	179	1225	
8908	39276	A	8967	342	407	
8909	39277	B	8968	143	3122	
8910	39278	A	8969	692	1360	MCGIISEGSILFHCSITLFWYQS HAVLVTVVAL*YFLKSGGLMPP ALFFWLRIDLGMLALLWFHMN LKVVFSNSLNKVIGSLMVMAL NL*ITLGSMAIFTILILPIHEHGM FFHSFVSSFISLSSGL*FSLKRTF TSLVSWIPGYFIFFVAIVNGSSL MIWLSVCLLLVYKNACDFCTLI LYPETLLKLICIRRFAETMGF SRDTIMSSANRDNLTSFPN
8911	39279	A	8970	2116	2418	FFSLFFFISLASGLSIL*W*FVFL WDQW*YPLYHFLHLFDSSLFS SLVLLVYY/PILLFSKIKNKKP APGFIDFFEGFFVSLSPSVLL*S* LFLAFC*LLNVFALASLVLLIVM LGCQF*IFPAFSCGHLVL*ISLYT
8912	39280	A	8971	1	558	LYKNSVKYFHN*PVGNIMSNIPI VGALFSGPAFGIGILAAGVILAI MIPIYIAAVMRDVFEQTPVMM KESAYGIGCTTWEVIWRIVLPF TKNGVIGGIMLGLGRALGETM AVTFIIGNTYQLDSASLYMPGN SITSALANEFAEAESGLHVAAL MELGLILFVITFIVLAASKFMIM RLAKNEGAR
8913	39281	A	8972	1879	3735	
8914	39282	A	8973	16	452	VGQLFWKGYPLAGFPDPCAQS WKVAHVLLRLGHIKSVSANG KEVTSKFHRKENLARGLHSRPR RGQRVRGGVAQHCEPR*TTPPA CRVRLPGCPVDPASPGRGRRTS AGTPEPALRHPTPRGPVAART LPAEPGPARPSGLPP

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8915	39283	A	8974	158	531	CSLRRGPPDP/PGAYCKRRATG AASTRSLSGAVAGSPAHRCESR PLQAMGA\GLPHPEGGRGGSG GRKRTDGPVCGCGERAPREYP DPSRSWRGPQRKPAPSQHPCLP RLSRGPGRHPEGPHQVR
8916	39284	B	8975	22	387	
8917	39285	A	8976	241	389	VASQAPGVRALQVGPAHSC*G RGHVSWPPPWPWGPPCCPLCL LNGLPNI
8918	39286	A	8977	1620	1936	TLFFFESESHSVTQDRVQWYDL \NSLQPPPPGLK*FSCLSLPSSWD YRRPPPCCPANFF\FLVELEFHVV GQDGLELLTSGDPPALASQSAR ITGMSHCAQQNKHIL
8919	39287	A	8978	3	105	
8920	39288	A	8979	1	1821	MLKNFKKGNGDYGVMTPG KLRTLCEIDWPTLEVGPSEGS LDRSLVSKVWHKVTGKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPTSDDPLQEMAKVIPVVP SPYQGERLPTFESTVLVPPQDK HIPRPPRVDKRGGEASGETPPL AARLRPKTGJQMPLREQRYTGI DEDGHMAERRVFVCQPFTSAD LLNWKNNTPSCTEKPQALIDL QTIIQTHNPTWADCHQLLMFLF NTDERRVLQAATKWLGEBAP ADYQNPQEYGKEESPAQFYER LCEAYHMYTPFDPSDENQRMI NMALVSQSAEDIRRKLQKQAG FAGMNTSQLLEIANQVFVNRD AVSHTGAEHSVVTGPVAPLSK KTIDIIGAMGVSAKQAFCLPRT CTPGTKDYRLVQDLRLVNQAT VTLHPTVPNPYILLGLLPAEDS WFTCLDLKDAFFSIRLAPERQK LFAFQWEDPESGVTTQYTWTW LPQGFKNSPTIIFGEALARDLQK FPTRDLCVLLQYVDDLLLGHGP TAVGCAKRTDALLRHLEDCGY KVSKKK\AQICQQQVRYLGFTI RRGV\RLGSERKQVICNLPEPKT
8921	39289	B	8980	209	2272	
8922	39290	B	8981	1	228	
8923	39291	C	8982	375	472	
8924	39292	C	8983	266	408	
8925	39293	A	8984	1	1105	

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8926	39294	A	8985	108	708	LTNQKKSRTTRIHSRILPEVQGG AAADRHCPIDRLGSLQDHRRS RLLSQWSP*KSTHD*HGFS\YQS AEDIRRKLQQQAEFAGMNTSEL LQIANQAFVNNDLAAIRGVPP KRQGKGGPGKETQPGCQSLQR NQCAYCKEIGHWKNKCPQLKR KPGDSEQEAPDKDEGALLNLA EGLLD
8927	39295	A	8986	125	444	DCLAVKRASWVQPTGYSCKPL L/QGVLYQRRQAAFPLRER LASSSRDKPKCAGKHTSSLVRA GDMQGTIVTGTTEVLRLDMEPK FEDDQLRPVLEHKVPRREMA
8928	39296	C	8987	80	325	
8929	39297	A	8988	566	1857	
8930	39298	A	8989	1	1037	MEEGWIRLPDGRVAAPQLLGA AVVLAVQETTHRQESLEKLL GRYFYISPLSALAKTVRQRDFA DFGTTIKQDFRLLGQTSDRLL QLSQGQAVKGNQLLPVSLTSQ CQVYKCVWNWWVLAGTDFKN EAKELRLYKQEKRKAKRWKE TEKGNGDYGVMTPGKWRT YFEIDWSKLEVGVWPSEGNERS LVSKVWHKVTGKSGHSDQFPY IATWLQLVLDPPQWLRGQAAA VLVAKGQIPRKDPTPAEGNQ LLK/SLFDPTSEDPLQEME/PSDP SGALPLPGKDAPH*AHSPCAS TRQTYP*ATRSRQERR*SLERNP YIGSSFKTQNWDTNAPERAVV
8931	39299	B	8990	1	2082	
8932	39300	A	8991	6	367	ENLNKAPHAVVTLMTTGPD WISNAILTKDFCLLCENTHISRW GCNTLNATTLLVSESPVKHNC LEVLDHSVSSRPNLRDHP*TSV DWELYVDGSGFANPCVKTLKK ETSPAPVTPRS

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8933	39301	A	8992	1	2991	MLKNFKKGNGDYGVMTPG KLRTLCEIDWPTLEVGPSEG LDRSLVSKVWHKVTGKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPTSDDPLQEMAKVIPVVP SPYQGERLPTFESTVLVPPQDK HIPRPPRVDKRGGEASGETPPL AARLRPKTGIQMSLREQRTGI DEDGHMAERRVFVCQPFTSAD LLNWKNNTPSCTEKPQALIDL QTIIQTHNPTWADCHQLL
8934	39302	A	8993	1	444	SSASTPETRAKFT*DNLCCASW QRLASANFRVLVDCILSDTFED LRLQCDAVNLAFFRRCEELED ARYKLHHHLHKAVE*GGGAEH VPH\RLREKLEAEQSLRNLEDI HMSLEKDIAAMTNSLFIDRQKC MAHRTRYPTILQLAGYQ
8935	39303	A	8994	1	1576	MVQTDVLLPEPAPQTVSPCELP CKEYDVARNMGPGRHQLEVW FQNCYARYHQAFADCNQSERE LQGRESQQLAAETQALAQPTQ QDSTCRVGERLQDTHSWKSEL QHEVEVLAETDLLLAKQRL ERALDAMEVPFSIATDNMQCS QRHQHANLVRDYVETELLKAY PPAPSQCLKNCSSRKPSACNK GACEVMETLTQVQEEANPGTEG CTRALARKEEAEPIRNIQELLK RAIVQAVSQIQLNREHTEICEM DWLDKVEAYNLDETGRHHSQ STERP/WTKFTQDNLCRAQRKR LSSANLWVLVDCILRDTSEDL GLQCDAVNLAFFRRCEELEDA RHKLQHHLHKMLREITDQEHN VVALKEAIKKKEPLHIAQTRL YLPSH\RPNMQLCREAAQFRAA FPG*ESFQWRLPRTSLPAPNWE FWVPFHPSRCILLPSPAPAHTPP TPPSW*VRWRSLYKSITALREK LLQAEQSLRNLKDIHMSLEKDV TAMTNSVIFDRQKCMAHRTCY PTILQLAGYQ
8936	39304	C	8995	99	442	

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8937	39305	A	8996	177	622	TESSASEKTTGEDGTRVFVSLRSLLSLLPSAPLRHHPPSA*LSLCSCVSD*AVALIPQSAHHFPNIS*PFPLHCFAHAKPPVWIFHSH/SWLWLP*AFLAPMTSFTDQVAVDDFLSIVYLFTFTPFLAFCGEPESTALATREQVWVESAS
8938	39306	A	8997	1	329	AAARPGRGSETGDWVLLCYPGWSAVV*S*LT/SELLGSRG*G SLLSLPSSWDYRLSAPCLANSKKPSER*GLSMLP*LVSNSWPQVILLLGP/KALGLQAPGTMGLRP
8939	39307	A	8998	1	814	
8940	39308	A	8999	57	274	TASSSSLTVYGHRLCWLGPSHP*PSLWLP
8941	39309	A	9000	1	1236	
8942	39310	A	9001	1	1095	
8943	39311	A	9002	1	2313	
8944	39312	A	9003	166	494	FSQQLCGENPHHLRTENTQAQRAGVPLGVRIILSRPGFP*LSTHSCFSCPLV*PPSQGQPGPLSLWTLC SAIQAPAELESCRSSCDRDGRSHWPRVSGGLWLSQVPRPRR
8945	39313	A	9004	3	974	MGESPAV*GYFVLAGMNSAGLSFGGGAGKYLAEMVMVHGYPSENVWELDLKRFGALQSSRTFLRHRVMEVMPMLMYDLKVPRWAFKTVSQLRTSLLYDRLDAQEARWMEKGFERPKYFVPPDKDLLALEQSKTFYKPDWFIV\ES/EVKCCK\EA/VCVIDMSSFTKFEITS TGD\QALEVLQYLFS\NDLDVPVGHIVHTGMLNEGGGYENDCSIARLNKRSFFMISPTDQQVH\CWAWLKKH\MPKDSNLLLEDVTWKYTGTGVRALYGDVEHESWLS CVRHAAHPDPICIAHTYLHLRSFSQADGREWRKVLDKHKIFLARS/CLC
8946	39314	A	9005	1	1872	
8947	39315	A	9006	1	2250	
8948	39316	A	9007	1	1257	
8949	39317	A	9008	1	1596	
8950	39318	A	9009	1	1584	
8951	39319	A	9010	1	1461	

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8952	39320	A	9011	110	993	TSTELSTPSQQNIHSSQHHIALV PKLTT*LERIKYLGQLTRDVKD LFKQNYKPLL/NKIKEDTNKWK NIPCSWTGRINIVKMAILPKVIY RSSAIPKLPMTVFTLEKSTLK FIWNQKRAHIAKTILSQKNKTG GIMLLDFKLYYKATVTKTAWY WYQNRDIDQWNRTEPESEIIPHIC NHLIFDKPDKNRKWGKDSLFPN KWCRENWLAICRKLKLDPLTP YTKINSRWIKDLNVRSKTIKTIE ENLGNTIQDIVMGKDFMAKTP KTIMATEAKIDKWDLIKLRASA QQKKLPSE
8953	39321	A	9012	1	1185	
8954	39322	A	9013	1	185	
8955	39323	A	9014	2	1321	
8956	39324	A	9015	2	1757	
8957	39325	A	9016	1	1008	
8958	39326	A	9017	1	1311	
8959	39327	A	9018	1	1152	
8960	39328	A	9019	1	526	MPSLTTPIQHSVVGSSGRAIRQEKE EIKGIQLGREEVKLSLFADDIV YLENPPISAQNLLKLISNFSKVSR YKINVQKSQAFLYTNNRQTESQ IMSELPFTIAKRIKYLGIQLTRD VKDLFKENYKPLLNNKIKEDTNK WKNIPCSWVGRINIVKMATLPK MTWIANWLRNSLQAQ
8961	39329	B	9020	1	1626	
8962	39330	A	9021	1	2361	
8963	39331	A	9022	1	1140	
8964	39332	A	9023	1	2112	
8965	39333	B	9024	1	1065	
8966	39334	A	9025	1	1416	

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8977	39345	A	9036	34	758	RVPHRHGMKVRQRHGMKRV PHRHEMKRVPHRHGMKRVPHR HGRKRVPHRHGRKRVPHRHGR KRVPAQVQDEEGHCQKPGRCV CMCVCVC\CVCVRVWIWVCVC VCVCVCVC\CVCV\CVCI VCI*VVVCVCVC\CVCV\CVCI CVCVCVCV\CVCI*VCVC VYVCVCVCLCLFYLVLQCFICS/ CIISGGQRWC*RKTMCSLPFAH SHHSFPGHFFLIFQSRSFQVSFHP
8978	39346	B	9037	34	156	
8979	39347	A	9038	3	419	GGENVKAQNQQTGAFVEISRQL/ PPN/GDPNFKLFIRG\SPE\QIDH AKQLIEEKIEVGWGGLGFGFL TARIAPAHLPWLLSFLLGPLCTV G\PGPGGPGPAGPMGPFPNGPF NQGPGAPPQ*VSSASWVLRP/E GLLSWQEE*QTPFPFP*KCRAG ALIQAHFCGYHQQALSCL/PGR ACAFQHPHSVHVQVSRLLSCPQA DAARPSSCFLSRPFPGAPLSLVV WVSGASPLKNIPTPGPAA\PPP HHCSSIPFFSPA\PGGPLLSTH PRAGAIPTPSGS/QPAPHDPSK* WALQPGATRGSPTVSILCLLG EAGGLLSWQEE
8980	39348	A	9039	1	445	ATADPNAAWADDY\SHYYQQP PG\PVPCPAPAPAAPPAAPPAQGEPPQ PPPTGQSDYTEWAWEYYKKI GQQPQQPGAPPQQDYTKAWE\ EYYKKQAQVA\TGGG\PGAPPG SQPDYS\AAWAEEYYRQQAAYY GQTPGP\GGPQPPPTQQ\GQQQA

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8981	39349	A	9040	38	1297	TCVSALSVLASDDGTGPEKIAHIMGPPDRCEHAARI\NDLLQLSLRVGGPGC*RGWQGLQGSARPDRLPGFI\LLLLLSCRVVPQGPPVGPGMPPGRRPKEEGQGN\WGSPWAGKMTFSIPTHKGVLVIGRGGENVKAINQ\QRGAFVEICRQLPPN\GTANFKLFI\RGSP\QQIDHAKQLNE\EKMKGP\LCPVGPGPGPGP\AGPMGP\FNPG\PF\NQGPPGAPPHAKK\PPP\HQYPPQGCNTYPQWQQHAPHDPSISAGKAAAADPNAAW/AAYYSHYYQQPPGPVP/GPAPAPAAPPAAQGQQPQ/QPGAPPQD\YT\KAWEY/YK\KQAQV/ATG/GGPGAPPGSQPDYS/AAWAEEYYRQQAAYYQ/T\PGPGPQPPP\TQQGQQQQWVAPETPSPRGVPLMPAAGAVWPEVPGVPTHRQGSIRWVQR
8982	39350	A	9041	1	1777	MPVLPVTATEIRQYLRGHGIPFQDGHSCLRALSPFAESSSQLKGQTGVTTFSLFIDKTTGHFLCMTSLAEGSWEDFQASVEGRGDGAREGFLLSKAPEFEDSEEVRRIWNRAIPLWELPDQE\EVQLADTMFGLTKV\DDTLKRF\SVRYLRPARSLVFPWFSPGGSGLRLKLLEAKCQGDGVSYEETTIPRPSAYHNL\FGLPLISRDAE\VVLT\RELDLS\ALNQSTGLPLT\LPRGTTCLPPALLPYLEQFR\IVFWLGDDLRSWEAAKLFARKLNPKRCFLVRPGDQQPRPLEALNGGFNLSRILRTALPAWHKSIVSFRQLREEVLGELSNVEQAAGLRWSRF\PDLNRLIKGHRKGELTVFTGPTGSGKTF\SEYALDLCSQGVNTLWGSFEISNVRLARVMLTQFAEGRLEDQLDKYDHWADR\FEDLPLYFMTFHGQQ\NIRT\IGTM\NHAVVYDYCHVIIDNLQFMMGHEQLSTDRIAQDYII\GVFRKFATDNNCHVT\VIHPRKEDDDKELQTASIFGSAKGGEWSAPHS\TSSRPSAQPKSDSTVAEAAPLASDFTAYWIWFLT\WGRGRASRDREFGYLAALN

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8983	39351	A	9042	3	679	SPLIVSSARMHAGRDLPLYFMT FHGQQSIRTVIDTMQHA\VG\Y DICHVIIDNLQFMMGHEQLSTD RIAAQDYIIGVFRKFATDNNCH VTLVIHPRKEDDDKELQTASIF GLSQRQAR\EADNVLDAGTGU LGNRGQGKRYFAGVPKEF*W EM*GVFPLEFNKNSLTSIPPKN KARLKKIKDDTGPVAKPSSGK KGATTQNSEICSGQAPTPDQPD TSKR SK
8984	39352	A	9043	90	317	GTLRKRYRAFHCRITIFKALTEV CKNFSALHCEFWSGFFFFCSFFF LASS*G*NCLPSQPQPCWFLQPP CPWQIL
8985	39353	A	9044	2	2136	PRLSVLSEFITTHIYFLLSETTY NYEWNLISLYVVDPDSLAC*TV QLFFMLQLSVGLYVFNVGNDIC LHKMGSVTVLFFVTARRVNLP VAVIKLMSSSSCISFLSLFLNLV ESTDDTEIVSYHWEINGPFIEE KTYLCFFTFLFCFVFIFVFAIT*G VQTPYLHLSAMQEGDYTFQLT GLQT*CKEILFHTVSVIPENNRP PVAVAGPDKELEIFPVESATCLS YSKPHAPSMLTTSMFYRGPSA VEMENIDKAIATVTGLQVGTY HFRFYSITGVLNQSLCFHFAIFD LENNSPPRARAGGRHVLPN NSITLDGSRSKKPRNWDPRIDSC P VIRVLSQDVIDGSDHSVALQL TNLVEGVYTFHFLML*SLCKCP SANPVSSLSPDPRKSGLVELTLQ VGVGQLTEQRKDVLVRQLAVG VSW*SPSDHVAVLSHCLLHSTV IVFVVQSRPPFKVLKAAEVARN L HIS*SRDSLFCMLPSALHTS/S AGCLLKCSGHGHCDPLTKRCI* K*SWSTNSL*LCPLWFSCVSEW SIFYVTVLKS*LSVTFLKI*VELF IVPFRQKRTKIRKTLNMY*VH LKYFTH*ILILPIAVRGMNDYP HD*QLEVNHGVPPQMLLCFSLG IKHRSTEHNSSLMVSESVRSF RDCLQSLNYLLSGLLQKEKNLQ KAGLTSPAPSLWEDKCSRTEH AQ SARLPLKEDTEKTLMQF
8986	39354	A	9045	47	157	FDKICIFKRQVTKSEVILNLTN* VL*YLEYHIRNIN
8987	39355	A	9046	1	393	
8988	39356	C	9047	274	357	

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8989	39357	A	9048	727	1089	
8990	39358	A	9049	175	608	CGWEYGN* A\DTMDEQYCKVC QAYKAPRSHHCTKCNTCVMK MDHHCPWINNCCGYQNHASFT LILL LAPLCIHAAFIFVMTMYT QLYSFGMENNFRKQNFYLSS WDWKEEGLKDPDFSIIQLGWK SFVFFHMDMGEVDGEGTF
8991	39359	B	9050	780	1166	
8992	39360	A	9051	3	681	HIRGPRYSGHHSAGCPYSDMN LKKEATLHDRLREQTQAN\LES DSSHSKSKSLCSLNFGKHEKV NSQPRLVQQAKCLKIKGKEDID LDNLFREYSVEQAQQVLHQSV SMSTVSAHPFRDLPLGREQHCK LLPGVADIRASQVARWTVDEV AEFVQSLLGCEEHAKCFKKEQI DGKAFLLTQTDIVKVMKIKLG PALKIYNSILMFRHSQELPEEDI ASGQEVRG
8993	39361	A	9052	30	981	TQDPWPSLPVLWSRASSDPAAG HRAEHI*TYWPWKLEGTDIWL VLYMPLVQPDNFKKHSHLPTY CLFKEDVKFPFRTCRLYCWL YTEEITYLHTKKVSVGQSAVRE EFAAACTWSIRIGEKLAILLSY LCRQQALLNMRMSVPIHESGV AQRSPVMDKLAQYSVEQAQQV LHQSVSMSTVSAHPFRDLPLGR EQHCKLLPGVADIRARQVARW TVDENLHGLIQTQKQTPHLDESIS KGESPALVVTELRCMCTATEP LVPTKNPYQERGHIGDSFLHYT DQEPPWDQSSVHPTPAPIYSV SSGFRVTRGSDI
8994	39362	A	9053	1	864	MVSALPEVGRAQILRLIAYIRSP APPVVGVERAARRPAQAFGLV ALPSTDATVFAFNQPLARACIGA ARHREPDAPGQSAWVGEECLK DALRSPETPKLGSLSPPCQDTRP GRASNDFSLEMGYSSLSAARLK IHGQVFQCCGPGLRTL\HWTQ S*TYLNILAET*GAQNQP*EW QAVD*GAPGLFSHTLGVFPR/RL PQHPKQIICFQNYEYSVEQAQQ VLHQSVSMSTVSAHPFRDLPLG REQHCKLLPGVADIRASQVAR WTVDPEYSSAPRGPELSAGANS SRGA

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8995	39363	A	9054	1	1737	MKEKPAVEVRLDKWLWAARFYKTRALAREMIEGGKVHYNGQRSKPSKIVELNATLTLRQGNDERTVIVKAITEQRQRPASEAALLYEETAESVEKREKMALAQMIMPQHDQLHRYLFENFAVRGELVTVSETLQQILENHDYPQPVKNVLAELLVATSLTATLKFDGDDITVQLQGDGPMNLAVINEINERAQNPLLCAFRCVNTYGSYECKCPVGYVLREDRRMCKAVFPYCQNESSDVLWQFDSTSQIFLKGTPKTTVRRGGEHNLKNPDECEDNPNICDGGQCAGIPGRNRCLCYDGFMASEDMKTCVDIDECSLPNICVFGTCHNLPGFLRCECEIGYELDRSGGNCTEDPDHSKSRSGRSQNDWGRRRK/T/KRSAYVR*RQLYIRRQPYAERPSLR*RQRP*IPCIRSQHGNRKRMRRIIFI/STKRTTAAARTSSVKKARSFSRALKNAMLS*RTAPSVS*S*IMITH*KK**SR*SLQTR*LMKSSARVFSK*TANGTWSL/HSRGSKVTIDGINSNDIYMLGYVNSNLTGPYRPVDKTGLGLEMGLDPPNDVTLTYSHFRVP EAEAAMWVSHAT

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8996	39364	A	9055	1	1743	MTTSTMTHMMTMHFPILVCAD SRDDVDVTNDVNDHDDSAKR KSHRERPIAAKRTETK/KRRRA RPKR/RTKARS*SAK*QTAQHT RTTAAIIMRDTQARRV*RPTKH AAEQRQNTTGKQRR*TKRVKA AKKEGE*RRRKMARRTTPQTR R*TRAKRRINRPRHGAKKRA*N /RRLKSAPKRHRVNRRDENART TTRHKKRRNRRVKRAERSGAE RTPYKQRHQQTREKRTCKRRQ TK/RTKAK*T*RDHENDGTRA YNKTPKKAAGRTRNNLRIHNA TKGGDNRGQTRRA*TKPRKYL PDENRYNTSSPERTPRKRRGKS E/RRDKTAQRAQ*ADRYNSRKT QQRL*KGHTHTER*RQARMHT RHAQNLDTQHSTRLCNA*ST/C HDRRSSSTMCHRYDQLYSRSH ALTMIIVNKPLRQCIRMLSFHD RHRSLAIDGDSASTGSPAFCV NTYGSYECKCPVGYVLREDRR MCKDTCTEKAFPAGGCEVDKT HTVPQERAYIHRTRLGRARTKK RDLYRRRAHNDRRRQKSAAYYE STSVRAHKYNNSGKSDTQNGS HHRQKLRQYGDAGKSHYLQY NIHFMYPLFNT
8997	39365	A	9056	3	451	FFEMKSHSVAQAGVQCSGVILA HCNLHLLESSDSPASA FRVAGII DARPHAWLIFVFLVETGFHHVG QAGLELLS*VIHPPWPPKVLRL QHETPCPAVSLYLNQSPENNLE EDSLAMSNNRRSKGPGIWQNP GFEILALSTFLVESDLK
8998	39366	A	9057	53	343	
8999	39367	A	9058	14	234	CLFIRIFNVICYSKTCKNSICIGV IEIVIDGCMCGGEDGGGGGSV TAGGAPSPIETGSHGPPQPAVYF WRF

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9000	39368	A	9059	3	865	INFSVCVLARFFLGVVVLCVSC CWFRVCACVCALA ^F PFCSCC VVVLCPVGCR\CTLFAV/CCCL/ CVCALFCGFLRLFCLCV/CPC S/CSARCRC/VCLALGA ^V VCFPP CSVVASGCCDWVWLCCGAV VALVGLLCCVLVCAWSFRCG/C V/CLC/VCVVVVLVVRCC/VCW CGSCVVVDCAGVVLVCC\LLVVL MMSL/CGCRVYSWYGVCWVCS VVCRVIDL/CPCCLCW/CVT*RG CWSVWCM/CTCCG/CVCGLAV M\WCRCVVRLVCLCAV*FIC ACVCFECAVGGFVGCGFLGSCL
9001	39369	A	9060	1606	1849	QGVASASLCREA ^G LTKISPGAPL WLP ^C SPGVTAEC ^S GERTVRHN VTDRVCVGLGAVTSPGRN*RG HVTHKFCILCTDTVRDC
9002	39370	A	9061	2	682	ALEAVFGKYGQIVEVHLMKDC ETNKSRGF ^A FITFERPADAKDA ARDMNGKSLDGKA ^I KVEQATK PSFESGRG ^P PPPPRSRGPPRVL RGGRRGSGGTREPPSRGGHMD D/SGRDSYRGPPRRESLPSCR/D APPTRG/PPPSYGGSSRYDDYSS SRDGYGGSRDSYSSSRSDLYSS GRDQVGRQERGLPPSMERGYP PPRDSYSSSRGT ^G PRGGGRGGS RSDRGGGRSRY
9003	39371	A	9062	90	443	NVVIQFIVLPYYLTIDPAGNSR SAPPTRG ^P PPPSYGGSSRYDDYSS SRDGYG*SRDSYSSSRSDLYSSY DRIVSTLFFVSLNWDFGPKFCLF LVSASASPSIRSASSRASTSWCS AA
9004	39372	B	9063	12	1373	
9005	39373	A	9064	2	206	

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9006	39374	A	9065	2	1423	IHFREMASKSWLNFLTFLCGSAIGFLLCSQL.FSILLGEKVDTQPNVLHNDPHARHSDDNGQNHLEGQMNFNADSSQHKDENTDIAEK\L EEKVRILCWVMTGPQNLEKKAKHVKATWAQRCNKVLFMSSEE NKDFPAVGLKTKEGRDQLYWKTIKAFQYVHEHYL*DADWFLKADDDTYVILDNLRWLLSKYDP EEPIYFGRRFKPYVKQGYMSGAGYVLSKEALKRFVDAFKTDK CTHSSSIEDLALGRCMEIMNVE AGDSRDTIGKGNFFHPFV\PEH HFNLKGYLPRFWYWNNYYP PVEGGELRFLFSTVTIRHSKALS LGVAQCSWLLKQQVISDDKTRPDPDRSRIMKERVQIVLYES GQAPVESSPLPGYCSALFATCF QVTKGNFSQDPTQAILYTQADKIEGWMRASGERVAEQQSGQTA MDGGKKEAEWKRTRAKYRD DVC SKHHPPYPTPVPPSLED
9007	39375	A	9066	1	311	
9008	39376	A	9067	1	493	ITRQHMRKAVPFQVPRKEILKLKGKVVVGHALHNDFQALKI*S TLGARPGDTTYVPNFLSEPGLHTRARVSLKDALQLLHKKIQVGQHGHSSVEDATTAMELYRLVEVQWEQQEARSLWTCPEDREPD SSTDMEQYMEDQYWPDLLAHGSRGGAREAQDRRN
9009	39377	A	9068	45	365	NQAAASRPHC AARTMAGEEEQAACVHEDRTQC RDKAAPQAAHLCGPPRGSGSVSTAPRAR*CPV CSSCPGPGAPEDTPEEV DVGAA SAHRSPRLCCSHLTHRWPKH

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9010	39378	A	9069	3	1687	ICVPKSVPFLWAGRGPHELLP CGSSSP*SGGLARA*GVFQGRA GVARAPSHLSFHNSPCVWSLST CCRAGSQDCGCPCHAAGQGPGK QTSSGTGASSSPWTSCL*KSLPK \VCS*GLETTIGRGRVKPIKVTD TAQ*CAASVTAPLLSS*LQDGG STAKVTRCT/TAGGRAVYGTAE GKAFPEAPELTCRS/ALAALGT WPLPPLQVSCGLRNPSPDLPV VGSRASV*TKSGSSPAKVWPLA EWFKSGSA\PVTGQEAWLLWA SDSSSELSLCPRKHAAPPHSAEH RQISQGLASSCWGAGGDKVVS ASMVGSAPGQCPMSALMTGSA SGQCPGHPCWSGTNADS*GRDP HRASRLLALPTASYEQ*PQPHW GSWTAHGQNGLGIFFQRVSWF V*GQTMVSRPRISGLQPVCLS AASPQAAPLGSHDPTPAGR*GL EPGGRQPSSS*IYVWEAPPGLW VPPGPFLSH*SWRGRTKAAPL KEPRPGGRCPGDRPSRAEAGL PQTRKPALPAIGR/PKKACSLRR PRVILEQSSQHLAAALSSWMQP ALLETGGKAVFFTPGGL

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9011	39379	A	9070	66	1956	PLLAIPAHSTFPARKPEEPPRPD* LCPHIHCAAV*GEIRTPV/SKTV RGVATRTRPRSASSLGTTGLR VSSVRRVQLSIKPGCSRVNENSS NSPCSSSQPGTSVLPCPTVCRE AGP/AGP*PPG*ALSLPAAGFTT ATEWKQSQLSSGG*THSGEDM GRATAAAATEKAQEQCMLREKL GTRQKAESGSRGA\AGLQHFCS APRTAWQPRASRA/RAGVRAW PCADPM*PPSHSPSFPKPFIPAA/ PGAQTLGAAGVEHVAGSARI CRTGLE/PHPHSPRRTLERQARI SGAGRRSSPNAATGARPRPAAG SPVSARRAPRRPA*SSPCSGPW TAVSAPRSPGPRGGGRPPSPGR RRPCCSVFSGGASPSSARVSSPS GSCSASPPAAPA\PGASGAVVA GPVVGSPREHGG*LRPPLPRLG VPGLLAARTSGAEVIHEQAAAQ GTAADTPGAPGLLAPAAAGA V/TRPGPPGASGCPRPAPRPPTP ASRSGRPVPGGGRGRRGGRGA GGEALQGAVVGGQVGGSGAL A/ATARGSPAAGVSRWTAPRCR HRRSDASASGTPARFPAGRK RTLWQ*SWRSAPPGLSELL*G LPRPLPESGRSKAPLPSGSTPLPS GRTPLPSGRSPSTRRSPS
9012	39380	A	9071	95	1423	GLENKAKGTEAHTRACP*GK STEQDTTWNTNTGRNEQQGPRP KGEQTQRKTERKPGRERQVQV LSSPPGRWC*DVGPLGGLPSRA KAAALTAAQKAQGRRGSPGS LPKSSPLPSAPGKR/TPPRGHLL VPLPSPYYPALLSQHPPQGPPCG ASAPPSSALLQRAPPPGTRTL\QR PPGPRVTCGTTP/MAAKAKSQS NAPRGSLLKKNSNFYNIPLKQV SCLITISKHSRNEVSVYQTSRPR AAATDVPRTPSLSVGCSWSCT RGHWPSCCPTAPRGQGL*EHS QGGPGSRSKLPWPTGPCGGLTPS CWSLAGSAGERVDLNQAAASR PHCAARTMAGKTLGGCGCVD VGAASAHRSPLRCTISPTDGP NTERGRSKTGWTGPPGFWPCP RPPTSNTTPLGLMDSARPGKA PAPFTDFRTPSGLLLPGWAVRA RREEDGCG

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9013	39381	A	9072	42	380	LGAPCTPPRSAPRTGRPEYA*A RG*PVGDLCRGPEAVVSTQVLL PRGLQ*NFAVLLQMScATPPP NCALKGCV*VPLEQSPFFHQAV ACREWKRKGKGMVCGGNASPQ RTEA
9014	39382	B	9073	116	341	
9015	39383	B	9074	52	190	
9016	39384	B	9075	70	310	
9017	39385	A	9076	1349	2456	HCSVPGAEWPRKPPAQICPQLT SRPHLSSPRSLSPCGHSPGP* SPQPPVMSLHEGPPRGPV/PSP VANPQPKPWLRSVDLPVPWH LPTVDRRTSL/APSLQSDV/PAPS GAL*PSGRACSGV/PPID*APEA ALSAAAPRPSLGSQNAASGLPA ASLPPQDSSQPHKTVPSPARSVP PLGAQARAAPPRLWCPHALVS G*EASPEAVSVAAGPPVPGPTPS TSGSTASHSRRGC*SPR*TPAPP RRDHGRSAAFEVLAASAAQP CASQGGPRPTGAGRTPSPLGLP FSRGPPAASARPFCRHPSL*FSW *SSPSGLSLSDTPHSPRRPLGPV CGLRAPCPPQIPACRVPAAHSQ RWPGSSSRSCRCQCC
9018	39386	A	9077	462	739	ACEPMVLFCLLALLLQDLFLGS YPRVLAADFIDIQVFFLGTSDRM* NTG\LEYFMLNSWLWLLNRL*S WGELCHFIPLHSPVKRGLNFYL QEFFF
9019	39387	A	9078	1	678	GTRVNIMLMKGFGSGIVVHQE SVCATYGSGLSSTCIVDVGDQK TSVCCVEDGVSHRNTRLCLAY GGSDVSRCFYWLMQRAGFPYR ECQLTNKMDWLLLQHL/KRNF LSFRSRTSLGFRTMSFRFRHPDS PALLYQFRLGDEKLQAPMALF YPATFWICWTGK*RPLHTDLRA ILKILTMMNITCWPHKAHENSLQ KLLTESLHPNLLDKGIFVASP LIFQKD SIPR

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9020	39388	A	9079	227	1980	GERLRYGVTEENGKEKGGEEK EQRGVKRPIVPALVPESLQEIQQS SNIIVIHPGSTTLRIGRATDTLP ASIPHVIARRHKQQGQPLYKDR WLLREGLNKPESNEQRNLIM VDQAIWSNKMSNGTRRNPVSP EQARSYNKQMRPAILDHCSGN KWTNTSHHPEYLVGEEALYVN PLDCYNIHWPIRRQLNIHPGP GGSLTAVLADIEVIWSHAIQKY LEIPLKDLKYYRWILVIPDIYNK QHVKELVNMILMKMGMFSGIVV HQESVCATYGSGLSSCTCIVDVG DQKTSVCCVEDGVSHRNTRIFS WRSGHLWVQDHEFQIRHPDSP ALLYQFRLEDEKLQAPMALFYP ATFGIVGQKMTTLQHRLRAILR ILTMNITCWPHRANKNSLQKLL LTESLHPNLFERGFLWASPLI FQKDSIPRR*IWGLHREMA*WP ATIPRRPLTALMSRKTAISLFEKG KALGLG*SPSSIAIDCCSSDDTK KKMYSSILVVGGGFDFVKASR IFCSTEFSTKCPPSLQADYLKM WM*SQGLKMDPRLIAWKGG AVLACLDTTQELWIYQREWQR FGVRMLRERAFAFW
9021	39389	A	9080	1	756	MRRIVALVETGEQPFGAATVGS RFGCLEDLGTDQRERHDHEMA AAHTYFIGDGDTLTEDEDED WGMAKGHHAINIEGFKLARVE DEMQFQEREPEKEVKIRGRTRGY TFIMLAALAAAEDMQVGEE L\C*KVSLKASQLGQMAMLQS VTQIGMVYGLPACGAQVNLQ DDKGSMVL/MCASKHGHMEIJK LLAQLGCNVHLQDNNDGSTML SIALEVGHKGITVLLYAHISFAK AQSPGTPRLMKPQSFI
9022	39390	B	9081	5	5440	

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9023	39391	A	9082	1	4294	WAVFDGNYYYYLPWAHTKPV VTLTSYWEDISHRLDAVNALLA MAERLQTNIEALKSGIQGKIPA NQLAELWLKLIDEVIEDTRYTL PLTEGKANVTVLDTQIRKLSR SLSQIHEAAVRMRSEATDVKST LAEIEDWLDKLMQLTEEPQNS MPDIIIWMIRGEKRLAYARI QVLYSTSGENASGKYCGKTQTI FLKYPQEKNNGPKVPVELRVNI WLGLSAVEKKFNSFAEGTFTVF AEMYENQALMFGKWG
9024	39392	B	9083	1	339	
9025	39393	A	9084	2	1767	KLYRGKSDENEDPSVVGEFKGS FRIYPLPDDPSVPAPPRQFREL DSVPQECTVRIYIVRGLELQPQ DNNGLCDPYIKITLGKKVIE\DR DHYIPNTLNPFGRMYELSCYL PQEKDLKISVYDYDTFTRDEKV GETIDLENRFLSRFGSHCGIPEE YCVSGVNTWRDSL\PTQ\LLQ NVARFKGFPQPILEDGSRIRYG GRDYSLDEFEANKILHQHLGAP EERLALHILRTQGLVPE\HV\ET RTLHSTFQPNISQGKT/LQMWG GMFFPKSLG\PPGPPF\NITPRKA KKYYLRVIIWNTKDVILDEKSIT GEEMSDIYVKG\WIPGNEENKQ KTDVHYRSLDGEGNFNWRFVF PFDYLPAEQLCIVAKKEHFWSI DQTEFRIPPR\LIQIW\NDNKFS\LL DDYLGFPRTLCRHTIHFQK SPGGNCRVWT*FPGPSKAMNPL KAKTASLFEQKSMKGWWPCY AEKD GARVMAGK VEMTLEILN EKEADERPAGKGRDEPMNP LDL PNR PET SFL WFT NP\CKTM K\ FIVW RRF KW VIIG LLL LFV GRAP L TLL PNY FV QWKIVK PNVLT KGKG FIS RV IQQ
9026	39394	A	9085	2	407	

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9027	39395	A	9086	15	759	SARPSHDYSHYYGTIEYLCYKILGDIENSIRVLQINNACLAADD F*TKYEREQT/LA/RTDLEMQTE GLKEELAYLKKNHEGEINALRG QVGGQISVEVDSALGADATNIL SDMQSQYENRKDAERWFTSCT EELNWEVVGHMEQLQMNRSQ VTDLRCNLQGLEIELQWQLSM KALEARFGPQLAQIQALISSIE AQLGDVRADSERQNQEYQLLM DIKLWLEQELATYLSLEGQEE HYNSLSTSKIL
9028	39396	A	9087	3	2026	AGPWDRMGAMGSLVGGDLGL VWGCAGEGFAGIPFSPCALTC EGNQGTRAKWVQTSTRILKGQ VKQARGAQVTVPYSPLWHGKLG RAAPTFNAPGRWLPLLLPPPL L*ITTCLLGKRTLQEALSLKLQE LRKVCLQEAVRAWP*GYQAGR LGGGEELGPLGRPPTARA YPPP HPNQAHHSCLCPAEV/MQMGVE SKRVGRGDRYRGVARR\MALA PDLSTEQRRRRRQVQADALRRL HELEEQLRDVRA RLGLPVLP LP QPLPLSTGSVIT TQGVCLGMRL AQLSQGEHPLVRVGEWT LANG RGRAGMGDSYPPNLPPPTSL* PIPFIHPVSGGSPERRTPWKPPPS DLYGDLKSRRNSVASPTR*E*A PPLLRRSWEWDSKPG LAEGPAS DRASLFVARTRRNSNSSEALLVD RAAGGGAGSPPAPLAPSASGPP VCKSSEVLYERPQPTPAFSSRTA GPPDPRAARPSSAAPASRGAP RLPPVCGDFLLDYSLDRGLPRS GGGTGWGELPPAAEVPGPLSR RDGLLTMLPGPPPVAADSNPL LLRTKDPTHTRATRTKPCGLPE AAEGP EVHPNPLLWMPPPTRIP SAGERSGHKNLALEGRLDWYI RN SGLAAGPQRRPVLPVGPPH PPFLHARCYEVGQALYGAPSQ APLPHRSRFTAPPVSGRYGGCF
9029	39397	A	9088	1	136	
9030	39398	A	9089	14	310	TFLFIYFFFETEHS\VPRLECS GVISAHCNLHLLGSNNATSAS *VAVITGACHHAWLIFVFLVEA GFCHVG/RRLVSNS*PQVIRLPW PPKVLGLQA
9031	39399	A	9090	1	436	
9032	39400	C	9091	75	410	

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9033	39401	A	9092	1	6691	MVNNTYREVKEGPVILEDVLIEV FRTLYSQCKAELDLQTEPPFSK DHAQLSSKLRENKKTAELIKTA NLLFNSFEPEYYMWDYVARWFE ECCRRTLHVRLQIGPGDSNDSS ELQLTNFCLLVDFLLDIVSLETY IEIQTEHLPQLLRLMISALTSHL QTLLHSELTDSSLRLCSKILSKVQ PPLLSASTGGVLQFPQSGQNNSV KEWEDKKVSSVSHENPTEVFE DGENPPSSRSSESQFTEFIQYQA DRTDDIDRELS
9034	39402	A	9093	293	687	PTAKVYIFSIFLTYHIVCCINTSS LFGFLQKNPEEDNSGRTLG\WE PGHLL\LTICTVRSMEQLLPFFN VLSQVFNSKVTSRCGGHSGSPi LYSNAFPNPKDMKLENHKPCSS KARQKIEEMVEKDFLEGMIKT
9035	39403	A	9094	3	4173	IPMVVSDFDLPDQQIEILQSSDS GCSQSSAGDNLSYEVDPETVNA QEDSQMPKESSPDDDVQQVVF DLICKVVGLEVESASVTSQLEI EAMPPKCSIDPDEETIKIEDDSI QQSQNALNESSSQFLSVSAEG GHECVANGISRNSSSPCISGTTH TLHDSSVASIETKSQRSHSSIQ FSFKEKLSEKVSEKETIVKESGK QPGAKPKVKLARKKDDDKKKS SNEKLKQTSVFFSDGLDLENW YSCGEGDIS
9036	39404	A	9095	5	1055	FDLERVRNLTYMVTRREKIKRS VCKVQEIQIFNLYTKLLEQERVS GVPSSCSSSSLENMLLFNPSVG PDAPKIEDLKW/PFCISSENK WV LPWVSFG*KRPIKSRIIQLN*PW K*RQNPAAARPVW*KGGDGG PRELFGFRKDLCRSTSHISTTEK WCGDARPWEKKRQSFSL*SH*R RLKGRI*TESQAS/PGPQMCPR GIWTTQELPPPLEWGSQHLGTR KEIVPKCNGSLIKVNYNQTAVK VPTTPASPVKNWGGFRIPKKGE RQQ/PGRGPRWGLPPALRLPIFG LRPSS\TKERAKSKLKSDNEND GYVPDVE MSDSESEASEKKCIH TSSTISRRTDIIRRSILAS

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9037	39405	A	9096	3	1136	FDIPFPKIGKL I KSNVPELRGHFP LSITLVLRLM I LLASKGDDPEDA KAKVLSVLKH I SLSFKQPRVM DMLKLYFLFSLQFLGGKRAI*IQ EG*SYGV I CWDLVFTFGIYPWNL SNLVFVSFLVNGLFHDL I CQPTR KGSKHFSQDV I MEKLV I VLAHL FGRRYFPPK I QDAHFEFYQSKV FLDDL I PEDFS I DALDEYNMKIME DFTTFLRIVSKLADMNQ I EYQLP LSKIKFTGKECE I DSQLVSHLMS CKEGRVAISPFVCLSGNF I DDL LRLETPNHVT I GTIGVNRSQAP VLLSQKFDNRGRKMSLNAYAL DFYKH I GSLIGLVQDNRMNEG I D AYYLLKDFALT I IKSISVSL/HVT YCENEDDV I VLA I FQLSTTFW
9038	39406	A	9097	2	522	
9039	39407	A	9098	3	1080	FLLPFSHQSKKK I ENSDQLMTLFT SFNSLHSAMESFFQATGNSTNL ADDGKRRTVVTPVILTKIDGVN VDTHHIPVN I TLRRIAHGADAV AARWDFD I LLNGQGGW I KSDGC HILYSDENITTIQCY I LSNYAVL MDLTGSELYTQAASLLHPVYY TTAIILVLCLLA I VIVSYIYHHS I LI RISL I KSWHMLVNLCFHIFL I TCV VFVGGITQTRNASICQAVGIILH YSTLATVLWVGVTARNIYKQG H*KS*KMPRI I PDEP/RTFNQDQW LRFYPDLVGGYPPSLVLRA*LA AANIKELRQS I AKPHPY/WLGW HGNPPWEAFYGPASF I TFVNC MYFLSIFIQLKR I RPERKYELKEP TGQQQR I LACQ
9040	39408	A	9099	1	307	
9041	39409	A	9100	2	286	

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9042	39410	A	9101	35	1211	EKDLLWEEKFPDRRTVTELPQT SHVSFSEPDIPSSKSTELPVDSI KTRLLFTSSQPFTWADHLKAQE EAQGLVQHCRATEVTLPKSIQD PKLSSELRCTFQQSLIYWLHPAL SWLPLFPRIGADRKMAGKTSP WSNDATLQHVLMSDLWAWSFTS LYNLLK\KNFSPYFYVCTYQFT VLFRAAGLAGSDLITALISPTTR GLREAMRNEGIEFLPLIKESGH KKETASGTSLGYGEYVIKITL/S SSTDWLTHEIDLHRNSL*NRDS NCSNF/LREQAISDEEESFSW LEEMGVQDKIKKPDLISIKLRKE KHEVQMDHRPESVVLVKGINT FTLLNFLINSKSLVATSGPQAGL PPTLLSPVAFRGATMQMLKARS VNVKTQALSGIQRPI
9043	39411	C	9102	48	464	
9044	39412	A	9103	1	140	MNRLKKEWMLEHIVENNNSGM ESQDIKGHFHAADKDLLEMGY LQKRGGLIGLTVLHGWGGLTIM AEG*KRSGCLSTLWKITPAWNL KTLKAIFMLLIKTYLKWAIYKR
9045	39413	B	9104	1289	2767	
9046	39414	A	9105	3	1278	INNTNTFRVLPHPSFVYTAKFHP AVRELVVTGCYDSMIRIWKVE MREDSAILVRQFDVHKSFINSL CFDTEGHMHMYSGDCGVIVVV NTYVKINDLEHSVHHWTINKEI KETEFKGIPISYLEIHPNGKRLLI HTKDSTLRIMDLRILVARKFVG AANYPGEDS*YFD/VH/GGTFLF AGSEDGIVYVWNPETGEQVAM YSDLPFKSPIRDISYHPFENMVA FCAFGQNEPILLYIYDFHVAQQ EAEMFKRYNGTFPLPGIHQSQD ALCTCPKLPHQGSFQIDEFVHT ESSSTKMQLVNQRLETVTEVIR SCAAKVNKNLSTWPPAVSSQ QSKLKQSNMLTAQEILHQFGFT QTGIISIERKPCNHQVDTAPTVV ALYDYTANRSDELTIHRGDIIRV FFKDNEWWYGQHRERGQEG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9047	39415	A	9106	1	1249	MAVLIFLGCLLGGIAIGLPIAWA LLCGAALMFWLDMDFDVQIMA QTLVNGADFSLLAIPFFVLAGE IMNAGGLSKRIVDLPMLVGH KPGGLGYVGVLAAIMASLSG SAVADTAAVAALLVPMMRSA NYPVNRAAGLIASGGIAPAPIPPSI PFIIFGVSSGLSISKLFMAGIAPG MMMGATLTGKRARFTEDDTR ERDAISVINHQRNAVLIRQRVK LQQLFVIRVLAMRIFVYGSRH KQGNSHWMTNAQLLGDFSIDN YQLYSLGHYPGAVPGNGTVHG EVYRIDNATLAELDALRTRGGE YARQLIQT PYGSAWMYVYQRP VDGLKLIESGDWRVLRWLVRH SIDVPDPIFGLTVTGDRTDRAG KTSPAQAGCKLFLTNPLGIGVL TTAEKKSLLKPEHQGLATEVM CRMNIAGASFANIEGVKAMTD VTGFGLLGHLSMCQGAGVQA RVDYEAIPKLPGVEEYIKLGAV PGGTERNFASYGHLWLR*LAL AP/LEVVEANGSL*CSGERGCL YQQTTIQLNFRPAFCPEHAIAG QKVAILRLNMQIDIKRVSSRTH GNHFTNFKFTVQHYRSCLT

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9048	39416	A	9107	162	2106	KMSKLKIAVSDSCPDCFTTQRE CIYINESRNIDVAIAIVLSLNDVT CGKLDEIDATGYGIPVFIATEENQ ERVPAEYLPRISGVFENCESRRE FYGRQLETAASHYETQLRPPFF RALVDYVNQGNSAFDCPGHQG GEFFRRHPAGNQFVEYFGAVPC RLVIPALKKQRKLSDETAIVV VDRFSGEVRAMVGGSEPQFAG YNRAMQARRSIGSLAKPATYLT ALSQPKIYRLNTWIADAPIALR QPNQ\ESVRVMLVDALTRSM NVPTVNLGMALGLPAVTETWI KLGVP\KDQLHPVPAMLLGALN LTPIEVAQAFQTIASGGNRA\PL SALR*TIAEHGKELYQSFPQAER AVPAQAAYLTLWTMQ\QVVQR GTGRKLGAKYPNLHLAGKTGT TNNNVDTWFAGIDGSTVTITW VGRDNNQPTKLYGASGAMSIY QRYLANQTPTPLNLVPPEDIAD MGVDYDGDNFVCSSGMRILPV WTSDPQSLCQQSEMQQPSGN PFDQSSQPQQQPQQPAQQEQ KDSDGVAGWITDMFGSNEHLS GYELDSYPLSSARRRARFTEDD TRERDAISVINHQRNAVLQR VKLQQLFVSNHIACWIRRPGDA NHPGFFANMQMLKIDVVFKLA FRQQFNIRTRRDKQIFFQSGVT
9049	39417	A	9108	1	66	
9050	39418	C	9109	79	150	
9051	39419	A	9110	2	475	GRGRWGAPRLRGAL*DP*GHF LGQQPRPQLHSPAPDR\PAPPTPT DAEGL/PPAAAAAAAGATARVP GSRGG*GQAAEELHEAGEAQA CRGGTEDEEHG**HLCHGRAS* CPGVSGSTGSPHPSPSMAPDDT SGLLEFVGVPLQTLFAWVSPAEE AAEQQRL
9052	39420	A	9111	171	462	PTSMGHLYSFPGN*SHAHYHPI KT*SPLPHSTPISNPSA\PLKGLK PVITRLLQHGLLKPINSPYHSPIL PVLKPDKAYKLVQNRLINQIV LPIHSM
9053	39421	A	9112	1	573	
9054	39422	C	9113	100	297	
9055	39423	A	9114	1	1401	

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9056	39424	A	9115	24	482	VGSGDLPWEGNPLSSCSLLHEK DPPTTSGPQT/GP/GPRNISPILNR AAPRQAQLGPNSSASAPPYN PFITSPPHTWSALQFRFVTSPPPP AQQLTLKKVAGAKGTVKEHFC HDLPASSMQSNYPVHDSGHLT TGPSLFKPTLNIEYSTGHAP
9057	39425	A	9116	1	489	
9058	39426	A	9117	1	642	
9059	39427	A	9118	237	748	ETNPLSSCSLLRDKDPPPTSSPQ THQPKKH\PPISNPAAHQAEGL PNPSSASAPPYNLFITSPPHTW SGLPFRSVTSPPPPAQQFTLKKV AGAKGTVKITDIELQVTLTVE ARLRPGEINSHVAHTKPVWWS LHTDTCDIWCRRPGTGGLLQET SPLSSPSLCEEIHL
9060	39428	A	9119	63	255	WVSGSVQVKVERGWDEGCKGI VKKACLTYTNRIMHCVGRY*A *ESIWVWHHGVNRQNNLVDKA
9061	39429	A	9120	24	389	SDVKANLSTGGPVCGGDTL/P VAEKPSDAVEAPGV*APSAGG AGPA\PSPLEPSGAPPPP/ALPP RAVLDGLAPGRPLPLASSNP/P PAGRLLLCTSPGRRGGAAGSG PRCPESKSIPRLCL
9062	39430	A	9121	704	867	CVKECLDVRHLRPFAYFTTRII* ILQDGKIQSAIF/CVIWNYCRVCI GVKRHSRRK
9063	39431	A	9122	1	7068	
9064	39432	A	9123	2	165	LLKRELNFDFYKISTTKERHLQ QS*PKDS\VPSLLASQTPNAPFL APQRRLCLA
9065	39433	A	9124	1	148	IRHSVNLLAG/RIFVFEPPLGLK ANTQRTFESGMKHVRRIYMMEF HVFM

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9066	39434	A	9125	1	2340	QFGIWLDSSSPEQTVPYLWSEE TPATPIGQAIHRLLLIQAFRPDR LLAMAHMFVSTNLGES\FMSIM EQPLDLTHIVGTEVKPNTPVLM CSVPGYDASGHVEDLAAEQNT QITSIAIGSAEGFNQADKAINTA VKSGRWVVMLKNVHLAPGWLM QLEKKLHSIQPHACFRLFLTME INPK\VPVNLLRAGRIFVFEP\PP G\VKANMLRTFSSIPVSICKSP NERARLYFLLAWFHAIIQERLR YAPLGWSKKYEFGESDLRSAC DTVDTWLDDTAKASGRQNISP DKIPWSALKTLMAQSIYGGRV DNEFDQRLLNTFLERLFTTRSF DSEFKLACKVDGHKDIQMPDGI RREEFVQWELLPTQTPSWL GLPNNAERVLTTQGVDMISK MLKMQMLEDDEDDLAYAETEK KTRTDSTS DGRPAWMRTLHTT ASNWLHLIPQTLSHLKRTVENI KDPLFRFFEREVKMGAKLLQD VRQDLADVQVCEGKKKQTN YLRTLI\NELVKGILP\RSWSHYT VPAG\MTVIQWGVPISARRINKQ LQNIISLAAASGGAKELKNIHVC LGGLFVPEAYITATRQYVAQAN SWSLEELCLEVNVTTSQGATLD ACSGFGVTGLKLQGATCENNKL SLSNAISTALSLTQLRWWVKQTN TEKKASVVTLPVYLNFTRADLI FTVDFEIATKEDPRSFYERGGG
9067	39435	A	9126	3	6375	HKVAAPDVVVPTLDTVRHEAL LYTWLAEHKPLVLCGPPGSK TMTLFSALRALPDMEVVGLNFS SATTPELLKTFDHYCEYRRTP NGVVLAPVQLGKWLVLFCDEI NLPDMDKYGTQRVISFIRQMVE HGGFYRTSDQTWVKLERIQFV GACNPPTDPGRKPLSHRFLRHV PVVYDYPGPASLTQIYGTFNR AMLRLIPSRLTYAEPLTAAMVE FYTMSQERFTQDTQPHIYSPR EMTRWVRGIFEALRPLE

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9068	39436	A	9127	3	617	SWFQPPSGPPWPGA\PPPPLAR VNPGV\PSLTTSLMDVEP*AQV ELPSHPRVPSPAPGPAP*VLEPP RSLLTSVVGPGQPSWAGGGMA VRQALEEAAACRDPCIAISSWAG GDRPLWWLDGLLRRVYPDSC PPCPSRIPAIFGASLQGSINPILQ MRKLFPHDM DLL*GQDPFSCR RPESWNRDVGWLALGVFCLVP FSLVGSLN
9069	39437	A	9128	1	702	
9070	39438	A	9129	1	1317	
9071	39439	A	9130	1	2641	MGLKARRAAGAAGGGGDGGG GGGAANPAGGDAAAAGDEE RKVGLAPGDVEQVTALGAGA DKDGTLLLEGGRDEGQRRTP QGIGLLAKTPLSRPVKRNNAKY RRIQTLIYDALERPRGWALLYH ALVFLIVLGCLILAVLTTFKEY ETVSGDWLLLLETFAIFIFGAEF ALRIWAAGCCCRYKGWRGRRLK FARKPLCMLDIFVLIASVPVVA VGNQGNVLATSLRSLRFLQILR MLRDGPGEGGTWKLLG\SAICA HSKELITA WYIGFLTLISSLFLV YLVEKDVPPEVDAQGEEMKEEF ETYADALWWGLITLATIGYGD KTPKTWEGRLIAATFSLIGVSFF ALPAGILGSGLALKVQEQRQK HFEKRRKPAELIQAAWRYYA TNPNRIDLVATWRFYESVVSFP FFRKEQLEAASSQKLGLLDRVR LSNPRGSNTKGKLFTPPLNVDAI EESPSKEPKPVGLNNKERFRTA FRMKAYAFWQSSEDAGTGDP MAEDRGYGNDFPIEDMIPTLKA AIRAVRILQFRLYKKFKETLRP YDVKDVIEQYSAGHLDMLSRIK YLQTRIDMIFTPG\PPSTPKHKE VFRKGQHFTFPSQQSSRGLNHM *ARPSTSE\EDQRH*WGKFVKS LKGQV\QGLGRKLDFLVDMHM QHMERLQVQVTEYYPTKGTSS PAEAEKKEDNRYSDLKTHICNY
9072	39440	A	9131	353	477	QNEILPQISKSNN EI*SRSPH*ITR NLNNNSNKMAHKMKFAN
9073	39441	C	9132	170	310	

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9074	39442	A	9133	1	859	MSCGRPPPVDGMITLK\DNLYRTSPDSLRRVFEKYGRVGDVYIPREPHTKAPRGFAFVRFHDRDAQDAEA\AMDGA*EGRALR\QVARYGRRDLPNSRQG/PTPRGRSRGGYGRRSRSYGRRSRSRPRR\HRNRCFCPSCSRSRRRGRYRGSRYSRSPYSRSPYRSRYSRSPYRSRYSRRESRYGGSHYSSSGYSNSRYSRYHSSRSHSKPGSSTSRSASTSKSSSARRSKSFVS\RSRSR\RSRSSMTSPP\GVSKRKSKSR\RSRSKRPPKSPEEEGQMSS
9075	39443	A	9134	161	332	SCLNQLNYLEMWKLFRKAQE DHTLGRDISYVAEVRPGEAGGR AHTGDSLTTMNPSFL
9076	39444	A	9135	1123	1489	LQTILQGHSNQNSMVLVPKQR YRSMEQNRALRNNVTYLQLSD L*QA*EKQAMGKGFPIS*MVLG KLAHNM*KAESGSLPYTLYKN* FKMD*RLKH*T*NHKNPRRKPR HYHSGHRHGQGLHV
9077	39445	A	9136	277	367	
9078	39446	B	9137	1	1136	
9079	39447	A	9138	3	1168	
9080	39448	A	9139	1	1460	ERGLETNSCSEEELSSPGRGGGG GGGRLLLQPPGPELPPVPFPLQDLVPLGRLSRGEQQQQQQQPPP PPPPPGPLRPLAGPSRKGSFKIRLSRLFRTKSCNGSGGGDGTGKRPSGELAASAASLTDMGGSAGRELDAGRKPKLTRTQS AFSPVSFSPLFTGETVSLVDVDISQRGLTSPHPPTPPPPRRLSLLDDISGT LPTSVLVAPMGSSLQSFPLPPPP PPHAPDAFPRIAPIRAAESLHSQPPQHLQCPLYRPDSSFAASLRELEKCGWYWGP MNWEDAEMKLKGKPDGSFLVRDSSDPRYILSLSFRSQGITHHTRMEHYRGTFSLWCHPKFEDRCQSVVEFIKRAIMHSKNGKFLYFLRSRVPELPPNSCQLIYPMRSFSIYESFQHLAKFRIRQLVRIDHIPDLPL\PKPLISYIRKFYYDPQEEVYLSLKEA\QS VSKQKQEVEPST*RGAPCWSPPARFGCQAPALKNQIKLP

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9081	39449	A	9140	2	418	KSPSKYLCYTFIISTAALVLLIM LPHE SMPVYLGMACTLGF GAI FTQRAV\FFAPIGEAKIAENKTG AAMALGSFIGYAPAMFCFSLYG YILDLNPGIIGYKIVFGIMACFA FSGAVVSVMLVKRISQRKKEM LAAEA
9082	39450	A	9141	26	180	KPAHQ CQVFFCPVVSAHQEV LPYKSGVTSIESFVTIICKVIRR* LLSFLA
9083	39451	A	9142	299	921	FGTAALVL*IVLPPEISPSh*GM ACTLGLGAIVLTQRAV/FFAPIG EAKIAENKTGAAMALGSFIGYA PAMFCFSLYGYI LDLNPGIIGYK IVFGIMACFAFSGAVVSVMLVK RISQRRI RRLRRIRQFHRRNTSS RYGSGFARGGRKATRG ISSQEL GQGLSGEEQDGASGGVTAGDI ATGDYFLLTPHLQICTGAKGGL GCVVEGR
9084	39452	A	9143	1	752	MSELPFAIASKRKEYVGQLPR YTIQKLEENLNVVLFD RSGHRT KFTNVGRMLLERGRVLLQAAD KLTTDAEALARGWETHLTIVTE ALVPTPAFFPLIDKLA AKANTQ LAIIT*VLAGAWERLEQGRADI VIAPDMHF RSSSEINSRKLYTL MN VYVAAPDHPIHQEP EPLSEV TRVKYRGIAVADTARERPVLT QLLDKQPLTVSTIEDKRQALL AGLGVATMPYPMVEKDIAEGR LRVVSPESTS
9085	39453	A	9144	389	760	SWRIDVHPV*YTTRLFPVLPY MQKGTSIRTSSRQLDKQPRLT V/STIEDKRQALLAGLGVA/TMP YPMVEKDIAEGR LR/VVSPESTS EIDIIMAWRVTKRTPKN*WTM MPENIGEYTKTTHILG

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9086	39454	A	9145	1	941	MTAMERSRILRRAVDILRERND ELAKLETLDTGKAYSETSTVDI VTGADVLEYYAGLIPALEGSQI PLRETSFVYTRREPLGVVAGIG AWNYPIQIALWKSAPALAAGN AMIFKPSEVTPLTALKLAEIYSE AGLPDGVFNVLPVGVAETGQY LTEHPGIAKVSFTGGVASGKKV MANSAASSLKEVTMELGGKSP LIVFDDADLDAADIAMMANF FSSGQAKR/NGARVLCGGDGVR ARDRPNLRRENLRGKYHS*QR HRRPDAC*YRPRL*RCGGRYAD D*VQAGAGSDGL*ATGHGGR EC*PYVTGEAG
9087	39455	A	9146	3	504	DQQQNQRQLIDCFPHAQWAKE VDVSDKEARCGVRCATRDHLP MVCNVPDYEATLVEYASSAEH KDDAVSAPVFDDLFILGSRLC SGPLCAEILAT*IS\DEPMMPMDA SML\AALIPNRLWVRKLLKGKA VKAGAVHFRRSIIYFHPQQANA LDFPSTHIKYCTMLL
9088	39456	A	9147	197	353	YGFWRPD*AHPAIN*ASAASISF LRWLIRLTSITETTAPLNAKQAI MPNTIL
9089	39457	C	9148	1	1263	
9090	39458	A	9149	3	726	GAKNAREAIYHIEGDPDH\PEN RLRYPEYRAPGSDKWQRISWEA AFSRIAKLMKADR DANFIEKNE QGVTVNRWLSTVNKKKISLRT VGAALVLQVVIGGIMLWLPPG RWVAEKVAFGVHKVMAYSDA GSAFIFGSLVGPKMDTLFDGAG FIFGFRVLPAIIFVTALVSILYYI GVMGILIRILGGIFQKALNISKIE SFVAVTTIFLGQNEIPAIVKPFID RLNRNELFTAICSGMASIDG
9091	39459	B	9150	1	1662	
9092	39460	B	9151	1	2658	
9093	39461	C	9152	1	2526	
9094	39462	A	9153	422	585	PYRLKQNIAGA*PIKLPNAIAAP VLFSAlFASTIGAKILLAVLRLSR PHPSVHA
9095	39463	A	9154	1275	1485	
9096	39464	A	9155	1	439	

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9097	39465	A	9156	1049	2195	NMPKASSCRFSTATTYLRDRSC K*PWAGS*KKNNSWR*CRRRTTS SHRTRLNATWGVSVKRRTKAR CSMVCASRGS/SNARGLELVKE GRAQACVSAGNTGALMGLAK LLLKPQLEGQNHRMLLRWEAKL AALVRLQENTAQPVPFAPNNA RPLTLEDDRLSCTVRGYNFAITF SKMSGKPTSWQLVASALATKI AHEVNPQNQVGCGMLAGGNFYP YSCKPEDVWAALEKDRENLFFI DVQARGTYPAYSARVFREKGV TINKAPGDDEILKNTVDFVSFSY YASRCASAEMNANNSSAANVV KSLRNPYLQVSDWGWDPLG LRTIMNMMDYQKPLFLVEN GLGAKDEFAANGEINDDYRISY LREHIRCNGRSDCRQAFR
9098	39466	B	9157	482	542	
9099	39467	A	9158	115	1662	TPYPDAITTHDIVDTPVQGGA VRVLVFSAWSLRVVSSVLFSLV WGFVSCRRFVPCRVCVLLCCL FWCFVFGVWLPRRHMSNHAAI GVGEQQCQRGNINGAPETFAS MANTGT*QW/QRISWEEAFSRI AKLMKADRDANFIEKNEQGVT VNRWLSTASLAPTFGRGAMTN HWVDIKNANVVMVMGGNAE AHPVGFRWAMEAKNNNDATLI VVDPRFTRTASVADIYAPIRSGT DITFLSGVLYLIENNKINAELYV KHYTNASLLVRDDFAFEDGLFS GYDAEKRQYDKSSWNYQLDE NGYAKRDETLTHPRCVWNLLK EHVSRYTPDVV\ENICGTPKADEF LK\APDRTTTFLYALGWTQHT VGAQNIRTMAMIQLLGNMGM AGGGVNALRGHSNIQQLTDLG LLSTSLPGYLTLPEKQVDLQS YLEANTPKATLADQVNYWSNY PKFFVSLMKSFYGDAAQKENN WGYDWLPKWWDQTYDVVKYFN MMDEGKVTVGYFCQGFNPVASF PDKNKVVSCLSKLKYMVVIDP LVTETSTFWQNHEAAVSGGKR PGRKRLNLLPMARLTIIASAT YANISAQWAKRLQTAFR
9100	39468	A	9159	1	2235	
9101	39469	A	9160	1	1821	

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9102	39470	A	9161	14	1785	FDQVEERVSVIEDQMNEMKRE EKFREKRVIRNEQSLQEIW DYV KRLNLHLIGVPESDWENGTKLE NTLQDIIQENFPNLARQANIQIQ EIQRMPQRYSRRTTPRHILNA HKRK*ERYKIDLTSQLKELEK QEQTYSKASRRREITKIRAEK IETQKTLQKINESRSCFEKINKID RLLARLIKKKREKNQTDVIKND KGDDTTDPTEIQTIREYYKHY TNKLENLEEMDKFLDTYTLPRL NQEEVESLNRPITGSEIEAIINS PTKKSTGPDRFTAECFYQRYKEE LVPFLLKLFQSIEKEGILLNSFYE ASTILIPKAGRDTTKKENFRPISL MNIDAKILNKILANRIQQHIKKL IHYNQVSFIPGIQGWFNICKSIN VIQHINRTKDNHTIISIDA FDKIQQPFMLKTLNKLGDGTY LKIMTAIYDKPTASTILNGQKLE AFPLKTGTRQGCPLSPLLFNIVL EVЛАAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPVSAQT LLKLISNFSKISGYKINVQKSQV FPYTNNRQTESQIMSELLFTIAS KRIKYVGIQLTRDVKDLFKEN
9103	39471	B	9162	1	2025	
9104	39472	B	9163	67	3156	

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9105	39473	A	9164	1	2019	MDTIKNDKGDITTDPTEIQTTIR EYYKHLYANKLENLEEMDKFL DTYTLPLRNQEEVESLNRPVRG SEIEAIINSLPT/KKSPGPDEFTA FYQRKVAFDKIQQAFTLKTLNK LVIDGTYRKIIRAICDKPTANIIL NGQKLEAFPLKTGTRQGCPLSP LLFNIVLEVLDRAIRQEKEITCIQ LGKEEVKLSLFADDMIVYLENP IISAQNLLKLISNFSKVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKKIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWE IPCSWVGRINIMKMAILPKVIYR FNAIPIKLPVAFFTELEKTLKF WDQKRAYIAKSILSQKNKAGVI MLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIMLHIY NYLIFDKPDKDEQWGKDSLNF KWCWENWLDIWRKLKLDPLT PYTKINSRWIKDLNVRPKTIKTL EENLGNNTILDIGMGKDFMSKTP KAMATKAIDNWDLIKLKSFC TAKETTIRVNRQPTKWEKIFTT YSSDKGLISRIYKELKQIYKKKT NNPMNKWAQDMNRHFSKEDI YAAKRHMKKCSSSLAIREMQIK TTMRYHLTPVRMVIKKSGNNR PPLSKEQPPIFRLSIILATTRDGN PAAVENVLHIKATLSFQQTHKA FYFQPS
9106	39474	A	9165	1	3477	

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9107	39475	A	9166	1	2460	MGDFNIPLSTS DRSTRQKV NKD TQELNSALHQADLID IYRTLHP KSTEYTFFSAP HHTYSKIDHIVG SKALLSKCRTEII TNCLSDHSA IKLEIRIKKL TQNCSTTWKLNNL LLNDYWVN NEMKAEIKMFFEI NEDKD TTYQNRWDT FKA VCR GKFIALNAHKRK QERSKIDTLT SQLKELEKQE QTHSKA SRRQEI TEIR AELKEI ETQK TLQKMNES RSWFFEKINNIDR LLARLIK KKR EKNQIDA IKNHKG DITTNP TEIQ TTIREYDKHLYA NKLENLEETD KFLDTYILP RL NQE QVES LNRPI TGAEIEAIINSL RTKSPG\PGGF TAEFYQRYKEE/HVLEV LARAI RQEKEIKG IQLGKEEV VL S LFA DDMTVYLENPTV SAQ NLLKLIS NFSKVSGYKIN VQNPQAFL YTN NRQTESQIMSEL PFTIA SKRIKY LG IQLTRDMKELF KENYKPLLS EIKEDINKW KNIPCS W VGRNIV KMA ILPKV IYRFNAI PIKLPMTF FTE LEKTTFKFIW NQKR ARIAK SILSQKNKAGG ITLADF KLYYK ATVTKTAWY WYQDRHIDQWN RTESSEIMPHIYNYLIFDKPDKN KKWGKDSL FNKWC WENWLAI CRKLKLD PFLTPYTKINS RWIK DLNVRPKTIKTLEENLGITI QDT GMGKDFMSETPKAMATKDKID KWDLIKLK SFCTAKETTIRVNR
9108	39476	A	9167	1	1389	

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9109	39477	A	9168	1	1659	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRSLH AKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRINKNLTQNRSTTWKLN NLLLNDYWIHDEMKAЕIKMFF ETNENKDТTYQNLWDAFKATA SKTNKEKEKNQIDTIKNDKGDI TTDPTEIQTTIREYYKHLYANK LENLEEMDKFLDTYTLPRLNQE EVESLNRPITGAЕIVAIINSLPTK KSPGPDGFTAЕFYQRYKEELHI NRAKDKNHMIISIDAЕAKFDKI QQPFMLKTLNKLГIDGTYFKIIR AIYDKPTANIIЛNGQKLEAFPLK TGTRQGCPLSPLLFNIVLEVLEAR AIRQEKEIKGIQLGKEEVKLSLF ADDMTVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPTIASKRKИ YLGQLTRDVKDLFKENYKPLL KEIKEDTNWKNIPCS WVGRIN IMKMAILPKVIYRFNAIPIKLPМ TFFTELEKTTLKFIWNQK\RARI AKAILSQKNEAGGITLP
9110	39478	B	9169	1	1716	
9111	39479	B	9170	1	3171	
9112	39480	A	9171	1	2952	MLLNQGRKLPRVFAETLKFK GTSNKPQTLEQISTSIIAQKEAT VMVPGSNQEIPSGAYAIRALGF KHKTGRLFEQTLNYLQEFLFTP QWHLECQQERTVHSPGKAAEA REPSVIDRHLIQQESSNWHLVGA ALGQSFQRKEQAAIFAVLQPLL VIPRQTGSGVDLQKTPDLQQR GLIVRRKTNQKGIVHINSTRE QNWTENEFDKLTEGGFKRWVI TNSSELKEHVLTQCKEDKNLEK SAIKLELRINKNIQN
9113	39481	B	9172	1	2406	
9114	39482	A	9173	1	2307	

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9115	39483	A	9174	3	2776	QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYTFSAPEHH TYSKIDHILGSKALLSKCKRTEII TNCLSDHSIAKLELRIKTLTQSH STTWKLNNLLNDYWVHNEM KAEIKMFFETNENKDPTYQNL WDAFKAVCRGKFIALNAHKRK QERSKIDTLSQLKELEKQEQT HSKASRRQEITKIRAELEKIEETQ KTLQKINESRSWFFERINKIDRP LARLIKKKREK
9116	39484	B	9175	133	3213	
9117	39485	A	9176	284	1689	QNFGNFKDLL*RSLW*REKSWI CML*ARNTASRQQRNKGQR MTLMS*EKKASDDQTSPS*R/Q EVTHRKEAKNLVKRLDKWLN RITSVEKSLNDLMEALKTM/RTR TTT**MHKLQ*PI*SFGRKIEQTT IRE\KHLYANKLENLEEMDKFL ETYTLPRLNQEEVESLNRPITGS EIEAIINSLPTKNSPGPDRFTAKF YQMYKEELVPFFLKLQFQSIEQE GILPNSFYEAHHIPKPGDRPTK KENFRPISLMNIDAKIFNKILAN QIQQHIKKLIHHHDQMGMFIPGMQ DWFNIRKSINVIQHINRTKDKN HTIIISIDAEEKAFDKIQQCMLKT LNKLGIDGTYVKIIIRAIYDKPTA NIILDGQKLEAFPLKTSTIQGCP LSPLLNFNIVLEVLRARAVRQEKEI KGIQSGKEEVKLSLFADDMTV YLENPIISAQNLLKLKSNSFSKVS GYKINVQKSQAFLYTNNREPN
9118	39486	A	9177	1	1515	

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9119	39487	A	9178	3	1601	ESRS*FFEKINKI/D/RLLARLIKK KREKNQIDAIIKNDKGDITTDPT EIQTIREYYKHLTNKLENLEE MDKFLNTYTLPRLNQEEVESLN RLITGSEIEAIINSLPTKSPGLD TFTAEFYQRYKEELVPFLLKLF QSIEKEGILPNSFYEAIIILIQKPG RDTTKKENFRPISLMSINAKILN KILANRIQQHKKLIHHHDQVGSI PGMKGWFNICKSINVMQHINRT KYKNHMIISIDEEKAFQKIQKRF MLKTLNKLISIDGTYLKIIIRAIYD KPTANIILNGQKLEAFPLK\NGT RQGCPLSPVLFNIVLEVLRALI/ RLISCFSKVSGYKINVQKSQAFL YTNNRQTESQIMSELPTIASKR IKYLGQLTRDVKDLFKENYKP LFNEIKEDETNWKWSIPCSRVRGRI NIVKTAILPKVIYRFNAIPIKLP TFFTELEKTTLKFIWNQKRACIV KTLSKKNKAGGITLPDFKRYY KATVTKTA/WSFHELGKTQLAT RTTVSTFQQIPGI*VQLRFDFSR DITLLSLLCR
9120	39488	B	9179	1	2034	
9121	39489	B	9180	1	2088	
9122	39490	A	9181	1	1870	MKAЕIKMFFETNENKDITTYQN LWDTFKAVCRGKFIALNAHKR KQERSKIDLTSPLEKQEQT HSKASRRQEITKIRAELEKIEETQ KTLQKINESRSWIFESINKIDRPL ARLIKKKREKNQIDAIIKNDKGD IITDPTEIQTIREYYKHLYANK LENLEEMDKFLDTYTLPRLNKE EVESLNRPITGAEIVAINSLPTK KSPGPDGFTAEFYQRYKEELVP FLLKLFSIEKDGLPNSFYEASI ILIPKP
9123	39491	A	9182	1	1410	
9124	39492	A	9183	1	3996	

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9125	39493	A	9184	281	3030	KPRLENYMKNAEASRADA\NW KKGY/LVMEDEKMNE\MKREGKF REKRIKRNKQLQEIWDYVKRP NLR LISVPESDREN\GTLNTL QDIIQENFPN\LRQANIQI\QEIQ RTPQRYS\SSRATPRHIVRFSKV EMKEKMLRAAREKEIQTNIHEY YKHRYANKLENLEEMDKFLNI YTLRRLNQEEVESLN\RP\RGSEI VAIINSLPTK\SPGP\DGFTAEYY QRYKEELVPFLLKLFQSIEKEGI LPNSFYEA\II
9126	39494	A	9185	1	2250	
9127	39495	A	9186	248	2385	RQWAGVVGRCSHLASWVSSNT SETGAIRSSTEVDAPDDSMLLST CDIDLTAARRAWLGCLPTKKSP GPDGFTA\EFYQRCKEELVPFLL KLFQSI/EKEGILPNLFDEASHILI PKRGRDTT\KKENFRPI\SLMNID AKILNKILANRNQQHIKKLIHH DQVGFI\PGMQGW\NFNICKSINV QHINRTKDKNHMIISIDA\KA DKIQQP\MLKTLNKL\GIDGTYL KIIRAIYDKPTANII\NGQKLEAF PLKTGTRQGCPLSPLL\NIVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSAYKINVQKSQAF LYTNNRQTESQIMS\VFPTIASK RIKYLG\QLARNAKDLFKENYK PLLNEIKEDTKKWK\NIPCSWVG RINIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA RIAKSILSQNKAGGITLPDFKL HYKITVTKTAWYWYQNRDIDQ WNRTEPSEITPHIYNYLIFDKPE KNKQWGKDSL\FNKWCWENWL AICRKLKLD\PLTPYTKI\HPRWI KDLNVRPKTIKTLEENLGNTI DIGMGKDFMSKTPKAMA\AKA KIDKWDL\IQLKS\CTAKETTIRV NRQPTKWEKIFATYSSDKGLIS RIYKELKQIYKKK\TNNPIKKW AKDMNRHFSKEDIYAANKHM KKCSPSLAIREM\QIKTTMRYHL

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9128	39496	A	9187	1	2229	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSSELREDIQTKGKE VQNFEKNLEECITRITNTCLK ELMELKTKARELREECRSLRSR CDQLEERVSAMEDEMNEMKRE GKFREKRIKRNEQLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRTPQRYSRRAATPRHIIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHYANKLENLEEMD TFLDTYTLPRLNQEEVESLRPI TGSEIVAIINSLPTKSPGPDGFT AEFYQRYKEELVPFLLKLFQSIE KEGILPNSFYEASIILIPKPGRT TKKENFRPISLMNIDAKILNK ANRIQQHIKKLIHHQVGFI MQGWFNIRKSINVQHINRAKD KNHMIISIDAEEKAFDKIQQP MLKTLNLGIDGTYFKIIRAIYDKP TANIILNGQKLEAFPLKTGTRQ GCPLSPLLFNIVLEVLAIRQE KEIKGIQLGKEEVKLSLFADD IVYLENPIVSAQNLKLISNSK VSGYKINVQKSQAFLYTNNRQ TESQIMGELPFTIASRKIYLG LIRDVKDLFKENYKPLLKEIKE DTNKWKNIPCS WVGRINIVKM AIPKIGKTTLKFIWNKKSRIAK SILSQKN/KAGGITLLTQLYYKA TVTKTAWYWYQNRDIDQWNR
9129	39497	A	9188	1	2667	
9130	39498	A	9189	1	3033	MADMLTWESCLEESLQEE SPLVTHCGPSCCISGQSPPSSARPSS VSSAISVLMQPNRKLPWA WTSPGIFTDLVVYMSLPHALARY NCDVCKSMLPPRLYAPEEKAR TSPLCGTWYSPSLPLCGAWCKK NEKKRERERERK RQREDILSGA SSYKDTIHQLRPPPYDVLQQIQ TTIREYFKHYANKLENLEEMD KLLDTYTLPRLNQEEVESLNRLI TGSEIVAIINSLPTKSPRPDGFT AEFYQRYKEE

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9131	39499	A	9190	1	950	MQAICTGQARALICMGGNFAL AMPDREASAVPLTQLDLAVHV ATKLNRSHLLTARHSYILPVLG RSEIDMQKNGAQAVTVEDSMS MIHASRGVLKPAGVMLKSECA VVAGIAQAALPQSVVAWEYLV EDYDRIRNDIEAVLPEFADYNQ RIRHPGGFHLINAAAERRWMTP SEIQTIREYYKHL\YTNL\ENL EEMDKFLDTYSLPRLNQEEVES LIRPITGSEIEAVVNSPTKNSPG PDRFTAKFYQRY/K/EELVPFFL KLFLAAVPAPSSHGPCCSRKA LRGSKTGSAYPSSA\RRVTVS EVVCLFAEAQLF
9132	39500	A	9191	1	3470	MASVSSATSGHGARSLLQFLR LVGQLKRVPRtgWVYRNVQRP ESVSDHMYRMAVMAMVIKDD RLNKDRCVRLALVHDMAECIV GDIAPADNIPKEEKHRREEGNK CHKQKAMGKHLKEPHVLGQET KGLESTDVLLPLPAAGQDLGRE KKIREEAMKQTQLLPEDLRKE LYELWEDLEFESPCLDSLCC SLKPQSESSPVLPEGCETLIQRL CAVGTGVTAA\ATRLCRASGL PAPHQWASELQRSRKKE
9133	39501	A	9192	1	3907	MAAWNLLKSYAYWGGLRKE DFHCLDRKTLRTVSFLAALLSY ESIGGKGKLTTRKDIYTENPSV HHHHQRPKVDKTTKMGKKQN RKTGNSKMQSASPPPKERSSSP ATEQSWMENDFEELREEGFRRS NYSELREDIQTKGKEVENFEKN LEECITRITNEKCLKELMELKT KARELREECRSLRSRC\QLEER VSAMEDEMNE\MKREGKFRDK RIKRNEQSLQE\IW\DYVKRPNLR LIGVPESDVENGTKLENT
9134	39502	A	9193	3	3197	

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9135	39503	A	9194	1	3158	MVKGSIQQEELTILNIYAPNTG APRFIKQLLSDLQRDLDHTLIM GDFNTPPLSTLDRSTRQKVNKDT QELNSALHQADLIDYRTLHPK STEYTLFSAPHHTYSKIDHILGS KALLSKCKRTEIITNYLSDHSAI KLELRINKNLTSRSRTTWKLNNL LLNDYWRKQERSKTDTLSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRPLARLIKKEKNQID TIKNDKGD
9136	39504	A	9195	1	3285	
9137	39505	B	9196	1	1366	
9138	39506	A	9197	735	3541	RSFPRSRPSPFLLSRYLRIHMV FSVLPFGLQNPKYLLSGSLQEK FRTPGINSHKTLDPNRVIKVRR RLEKEKALRAYVGKSEVRNMH LRERCKL*KKREKNQIDTIKND KGDDITTDATEIQTIREYYKHY ANKLENLEEMDKFLDTYILPRL NQEEVESLNRPITGSEIEAIINSL PTKRSPGPDGFTAIFYQTYKEE LVPFPPLKLFQSTEKEGILPNSFY EASIILIPKPGRDTTKKENFRPIS
9139	39507	A	9198	1	5356	MGKKQNRKTGNSKMQSASPPP KERSSPATDQSWMENDFDEL REEGFRRSNYSELREDIQTKGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELRECRSLRS RCDQLEERVSAMEDEMNEMK QEGKIKRDKEGHYIMVKGSIQQ EELTILNIYAPNTGAPRFIKQVL SDLQRDLDHTLIMGDFNTSLL TLDLRSMRQKVNKDTQELNSSL HQADLIDYRTLHPKSIEYTFFS APHHTYSKIDHIVGS

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9140	39508	A	9199	1	2491	MGDFNTPLSTLDRSTRQEVNK DTQELNSALHQVQLIDLYRTLH PKSTEYTFSSAPHYTYSKIDHIV GSKALLSKCKRTEIITNCLSDHS AIKLELRKKLTQNHSSTWKLNN NLLNDYWVNNEVKAЕIKMFF ETNENKDYYQNLWDTFKAIN KIDRPLARLIKKEKRNQIDA NDK\WDITTDPTEIQTTIREYYK HLYANKLENLEEMDKFLDTYT LPRLNQEEVESLNRPITGSEIEAI TNSLT\TKKSPGPDGFTAKFYQR YKEELVP\FLLKLFQLIEKEGILP NSFYEAASHLIPKPGRTTKQKK NFRPISLMNIDAKILNKILANRI QQ\HIKKLIHHHDQVGFI PG\MQG LFNICKSINVIIHHINRTKDKNYM IIS/I*DAEKAFDKIQQPMLKTL NKLGDGTYLKIIRAIYDKPTAD IILNGQKLEAFSLKTGTRQGCPL SPLLNFNIVLEVLRARAVRQEKEIK GIRLGKEEVKLSLLADDMIVYL ENPIVSAPNLLKLISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRKYLGIQLTRD MKDLFKENYKPLLNEIKEDTNK WKNIPCSWGRINIMKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIFWNQKRARIAKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQRDIDQWNRTEPSEIT PHIYNYLIFDKPEKMSIIDTGGW
9141	39509	A	9200	1	3083	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDELR EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELREECRSLRSR CDQLEERVSAMEDEMNEMKRE GKFREKRIKRNEQSLQEIWVDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRTTPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHLYANKL

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9142	39510	A	9201	1	4201	MRKKQSRKTGNSKKQSTSPPPK ERSSSPAMEQSWTENDFDELRE EGFRRSNYSKLQEEIETKGQEV ENLEKNLDKCITRITNIEKCLKE LMEALKAKARELHEECRSLRSRC DQLEERVSVMEDEMNEMKQE GKFREKRIKRNEQSLQEIWDYV KRPNLPPIDVPESDRENGTKLE NTLQDVIQENFPNLARQANIQI QEIQRMPQRYSRRAATPRHIIVR FTKVEMKEKMLRAAREKAFKQ ASRREDDIAKVTSG
9143	39511	A	9202	715	6193	GQHPDTKAWQRHNKKKENF RPISLMNIDAKILNKMLANQIQ QHIKKLIYHDQVGFIPGMQGW NICKSINVIIHHINRTKDKNMII SIDAAKAFDKIQQPFMLKTLNK LGDIDTYLKIIIRAIYDKPTASIIL NGQKLEAFTLKTGTRQGCPLSP LLFNIVLEVLRALARQEQEIKGI QLGKEEVKLSLFADDMIVYLEN PIISAQNLLKLIGNFSKVSGYTIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKR
9144	39512	A	9203	1	3682	KEGHYIMVKGSIQQEELTILNIY APNTGAPRFIKQVLSDLQRDLE SHTLIMGDFNTPLSTLDRSTRQ KVNKDTQELNSALHQADLIDIY RTLHPKSTEYTFFSAP\HHTYSK IDHILGSKALLSKCRTEIITNCL SDHSAIKLELRIRKL\TQN\RSAT WKVNNLPPGMTYWV\HNGNE GQKLKMFFETQWE/HKDTAYQ NLW\DTFKAGCRGFIALNAHK RKAGKDPKLTPLTSQLKK\LEK QEQT\HSKASR
9145	39513	A	9204	1187	1680	DSPCTIASTRSYSFICNRPLSVDI QLRCSCRNVRLSTYC/LYLRQ LRIEGGNFVFTTKADNGPQQIIT *TNSFPVGNNAAQTVKVRHHILT FFINLFGKEIGGPDHFNNGFTQP LPSGGTQPQHLSCVTIDGGNVT MRIHRNQPFINRTKQRLLLTDH ACDLLWLH
9146	39514	A	9205	3	293	ERSWSQLLSTEQFWQQLPGTG SGRARQNISRKP <small>R</small> EHAGGYRR DNGNNWA <small>V</small> PHIQCNLVPR**K RPPVRAHRAPE <small>T</small> LCASKALQEQ RYWVFELL <small>R</small>
9147	39515	A	9206	1	4509	
9148	39516	A	9207	1	507	

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9149	39517	B	9208	1	3448	
9150	39518	A	9209	1	2652	
9151	39519	A	9210	75	784	
9152	39520	B	9211	1	1968	
9153	39521	A	9212	1	298	LQGHVLVDYVSLSCLPFGIMGH GNWPLWVLTACLVLLC*/WSL RRQ*IQQ*APSDQKRDQLVPHG A/VFDR*ISATCWSSINWPANCS RPSIAGWPQAS
9154	39522	B	9213	167	362	
9155	39523	A	9214	959	1267	YWHHQLLSMVRQLMVLWSKK ISSWFMGPPPIRKSLAENSI*KN LV*VHLKLTEGISTLK*MAPQN TQY*MTVIKLFKWVARQTRLR SIMVCYSSTTLT
9156	39524	A	9215	370	555	
9157	39525	A	9216	1	1016	MSHQLTFADSEFSSKRRQTRKE IFLSRMEQILPWQNMVEVIEPFY PKAGNGRRPYPLETMRLIHC QHWYNLSDGAMEDALYEIASM RLFARLSDLSDALPDRTTIMNFR HLLEQHQLARQLFKTINRWLAE AGVMMTQGTLVDATIEAPSST KNKEQQRDPREMHQTKGNQW HFGMKAHIGVDAKSGLTHSLV TTAAANEHDLNQLVQNELETAE RFRRQEDTQSKCLLSSIMLYIKN LSGPDVSELISPLSEGFLCSSV VVAVIAAVLRRAPIHMPSGWW RSWNAESGAYNVTRSGDSYI/H G*LLYRSRKLPDPADEGALQK WWVSLPFFKRRRLWF
9158	39526	A	9217	408	643	PGCGSGHSWHRHQCGPSCQSA TDCLSWSDASPDRVAALCSWS SWVPQ*WWHR/HKVP*VIMTP ASASQRLMVNNWRAS
9159	39527	A	9218	626	760	
9160	39528	A	9219	1	2469	
9161	39529	A	9220	1	756	
9162	39530	A	9221	1738	1913	PTAWSPPRPTSMTSISWVICFME RSNLSQPMPATKERHSARSWPR WMWTG*SPSPVPAR
9163	39531	A	9222	2403	2760	FRGDGILVSCPLVFSSAFSWRA ADGGKRNVHPSV/VR*AGAL RPRTQSRIQ/SQRLNKVEKG KQFEHNQSCRQQVGVTIICKVK QLADILPHGHFQFYAEVIGKLF RQRSARDAIRGSS
9164	39532	B	9223	1	3663	

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9165	39533	A	9224	1	1584	MELIEKHVSFGGWQNMRYHQS QLKCEMNVGVLPPKAANEK LPVLYWLSGLTCNEQNFTKSG MQRYAAEHNIVVAPDTSPRG HVADADRYDLGQGAGFYLNA TQAPWNEHYKMYDYIRNELPD LVMHHFPATAKKISGHSMGG LGALVLALRNPDEYVSVAFSP IVSPSQVPWGQQFAAYLAEN KDAWLVDYDPVSLISQGQRVAEI MVDQGLSDDFYAEQLRTPNLE KICQEMNIKTLIRYQORGACSD AATRGAKRESGRSGCGLLIAER PAKVEPGTASRQDNTAINIEYM KASIRARVEHPFRIIKRQFGFVK ARYKGLLK\ETNWRCYSRWP/ HLFRADQMIRNPHDLYAPEVV HQKAKVTTSGYRFLPCCGFAN TFWGKTTADGTIEHFGRRCQG WFEDDDGHREQCDFRFRFKNC PQNAENDIAARRCRECDTVLV DPDDMLKAALRLKDALVLC GMSLQHGHDEKGEWLKITYYD EDGADVSRFRLQTTPAQRTAFE QLFIRPHTRTPGI
9166	39534	C	9225	1	2127	
9167	39535	B	9226	1	1917	
9168	39536	A	9227	1671	2198	RAGAWASDPRQRGVVRNAALL PPDDRSDGRDAKTQSHRDG/VI SY/RAFDETILASGIVPRTPPIDGI DHPKNEADDMLRMGFIEDVETI /IGADPGRSSDRSVLCNHAGSDS SHYPPLYERAAGSAHSVQRDYP SGHQPELLDCLGYARTRSTDTG TPERWSSGHPDCDRRCSWPGR
9169	39537	A	9228	642	746	
9170	39538	A	9229	1	2031	
9171	39539	A	9230	909	1058	
9172	39540	A	9231	2	268	WRCLLRQLKFIIKTVTSWICTG KMLSTTSPLMMQMVMILLMP VLASKVVKPKSTIN*LVSVSGNM NSKATALNLKVPPKIKPVPLSL
9173	39541	A	9232	63	463	FPATCWSSINWPANCSPRSIAG WPK/PGVMMTQGTLVDATIIEA PSSTKNKEQQRDPEMHQTKKG NQWHFGMKAHIGVDAKS\A*P TAWSPPRPTSMTSISWVICCME RSNLSQPMPATKGRHSARSWP RWMWTG

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9174	39542	A	9233	74	247	RNVMIKRRVLSSTSAS*LPPASA FCRLFSTPARWRSTACFTSGNR YRFLTIVRLSGYW
9175	39543	A	9234	3	271	ASYWNRSFSPWGTYNRHPR*N RQCASRHCRLHKQYQWPRJR S/WLNCTPAPHARDVLLWRPSS LPAGNADGPIWRPCCVFTACS IGTT
9176	39544	A	9235	1	1048	MCSFRSQTFCSSSRTFARVSVI HSANHRVVLNDRSTIMRTRGQD PTLPEMRRVRLLLEMADAMDMF CQGLRYGPLPAPVRQQAAIIIPC HRVVVRGDGTLSGYRWGVSRKA QLVRREAENEERPINRGWPQKQP SDDPKHFVMPHIIEAPSSTKNKE QRDPPEMHQTKKGNQWHFGM KAHIGVDAKSGLTHSLVTAA NEHDLNQLGNLLHGEKQFVSA DAGYQGAPQREELAEVDVDW LIAERPGKVTLKQNPRKNKTA INIEYMKASIRARVEHPFRIIKR QFGFVKARYKGLLKN\ETNWR CYSPWPTCFGWTK*YPSIPTCLL TTRTASLLKPPGVRTSVCWQQL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9177	39545	A	9236	1	2493	MTQIFTGTLVEADPFHAVTLVA NHDTQPLQALEAPVEPWFKPL AYALILLRENGVPSVFYPDLYG AHYEDVGGAGQTYPIDMPIIEQ LDELILARQRFAHGVQTLFFDH PNClAFSRSGTDEPGCVVVMS NGDDGEKTHLGENYGNKTWR DFLGNRQERVVTDENGEATFFC NGGSVSVWVIEEAANNRQYDY GAGHKIPVINYTDVHLRIERSCR FRADPRQQHELQLSSKLAVHD VLTNIYNRRYFFNSVESLLSRPV VKDFCVMLVDINQFKRINAQW GHRVGDKVLVSIVDIHQQSIRPD DILARLEGEVFGLLFTELNSAQ AKIIAERMRKNVELLTGFSNRY DVPEQMTISIGTVFSTGDTRNIS LVMTEADKALREAKSEGGNKH WYNLSDGAMEDALYEIASMRL FARLSLDSALPDRTTIMNFRHL LEQHQLARQLFKTINRWLAEA GVMMTQGTLVDATIIEAPSSTK NKEQQRDPEMHQTKKGQNQWH FGMKAIGVDAKSGLTHSLVT TAANEHDLNQLGNLLHGEEQF VSADAGYQGAPQREELAEVDV DWLIAERPGKVRTLKQHPRKN KTAINIEYMKASIRARVEHPFRII KRQFGFVKARYKGLLKN\ETN WRCYSRWP/HLFRADQMILCPV FVHHIPRFFGTFFGATDTQTFTL TESVIHQPLVLTNFIAIDGNDFA
9178	39546	B	9237	1	3148	
9179	39547	B	9238	1	1680	
9180	39548	A	9239	191	470	

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9181	39549	A	9240	1	1675	MFARVSTTPVTRYEMYRKTRS TRLEDNNNALSQSCKPLPSEVT GSKKGADKEKVGDYVFCLKAQ GRYNGEPLTGTGKIGGMLALR GEGTPFPVQADFRSGNTRVAFD GVVNDPMKMGGVDLRLKFSG DSLGDLYELTGVLVPDTPPPFT DGRLVAKIDTEKSSVFDYRGFN GRIGDSDIHGSLVYTTGKPRPK LEGDVESRQLRLADLGPLIGVD SGKGAEKSKRSEQQKGEKSVQ PAGKVLVLPYDRFETDKWDVMD ADVRFKGRRIEHGSSLPISDLST HILKNADLRLQPLKFGMAGGS IAANIHLEGDKKPMQGRADIQA RRKLKLMPDVELMQKTLGE MNGDAELRGSGNSVAALLGNS NGNLKLLMNDGLVSRLNLMIEV GLNVGNYIVGAIFGDDEVRVN CAAANLNIANGVARPQIFAFDT ENALINVTGTASFASEQLDLTID PESKGIRIITRSPLYVRGTFKNP QSG*WS/GTLLLSTKAKTIVAI TTLKVTVMASVSLPMNTKDS VSVQLMRNLIVPTLKLMQGKFF LKYLLPVKMQKFGPQV
9182	39550	A	9241	72	506	GHVAHLQPRAGGRQPARNLHHP QGTDRVLHGQRGQQPGP/LLPS LSAWRPSTSTLKPASCGLRGPT SKRMSM\QDGGLPHHRAGAQP PVHPGQEAVG*C/EYWSASSRP VTQPGALMWRLWS\AGRPRPY LLSHSQHDPHSGQGGGEHP
9183	39551	A	9242	1	447	
9184	39552	A	9243	70	490	CGCDAETIILRINALAFIWKCGT EWICCFCRALALRELQQAVHAG LPQQAKILFDGGSEIGKIH*LRC AHCPLOSS\GKPVVPAALMNRT RGERRFAYWAPGWFFFSPVRR ATADCPSPPGPERVAASGPRWF APAGENPV

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9185	39553	A	9244	1097	1841	ANDGDLRSCVTL SCHMSHASE AADPPATTAAFTDEHMSVKLRR TVGVACSVCPGWVTSGHPVNP AAS/GAKVLPGDTDIALPGPLPF ILSR\QLRDNTLILSDNGG\RILY FELLFPGEDGYRRCESLWLVRG GVAKLDQGHRLAALWQALSEE LRLTPHRYLATNSPQGPWWLL GWCERVPEADEVLPA PLPPYRV LTGLVDRIWRSEDVSAASGLHH DNRNAPSLSDQTRTDPIRAHA SRYQRQKPDG
9186	39554	A	9245	456	928	EAATEPKHLHQLRHAALA QHR QAPRPQGRPLARPHQGQDQPD RLHHLRGGRHGARGHLHQA GAGESAPAPKG/VTCPASPLGD VTGKPTSAWNTEKGRWAQHR GYPSPGPAAPLVLRSWPIPLFRP PPLLPLSSPAWILPSPLCHSLKA QSLVQATI
9187	39555	A	9246	1	1572	

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9188	39556	A	9247	1	2505	MAWRNSVNWQCKQEPGFLHR RHGRRKLTNGTTRRSILQNKEE DFYTSQPGFPALALGCCRLVNL LLGHRGISAGSSYRPITSTPCHL CKLGQEVAFKPLNLQDQCQQN LVMQVLKLVLNCLNFDFIGSSA DESADDLCTVQIPTTWRTMGL VGCDGVCCRTRWCQCLATAV VSGVGGGPWLLPACSSGPMIS KRKKFVHKWAKDLVEPRHGLE NVWDLPRAMAGSYLMLYKQRK WKIMEFGKWALQHKMTVKDIE RLQLYNKVKEQPVQVEGSGRA STIFWVLKTFKGKSPCGAPGE CVAWTQCRILGWVQIHFKEHP ADRVVGLIKMPGLDFYFAADV CYAEKVAQEKGFLYRLTSRYR HYAAFERATFEQGKSTKLMM TDKQIADFQKHYQTEPERFQILP PGIYPDRKYSEQIPNSREIYRQK NGIKEQQNLLLQVGSDFGRKG VDRSIEALASLPESLRHNTLLFV VGQDKPRKFEALAEKLGSERAS MEFKRYEYNAAGDLTAVITPD GNRSETQYDAW\GKA VSTTQG GLTRSMYEYDAAGRVISLTNENG SHSVFSYDALDRL\ED EGLVIL W\YYDESDRITHRTVNGEPAEQ CQYDGHGW LTDISHLSEGH RV AVHDGYDDKGRLTGECQTVEN PETGELLWQHETKHAYNEQGL ANRVT PDSLPPVEWLTYGSGYL
9189	39557	A	9248	481	857	PLAYLYRDPHVRRCVTASGPAP VYGFQPGFSAPTG/IRKSVHGD HSYCKYAHCSRQYRAPEPRLS RTSQCLFSHRSARCPLDDLMGR RYRRPECRSPLLPAAPVPGLPP WTIYP RRLYRNNSPR
9190	39558	A	9249	777	1229	GAGYSSARGKHHARTGGAGR NILWRQLRRRGCRSTVDRSHH NQPGTWHRHQPGPRGPAKPAR PWRAGTHLPTGTASVRHPCLG QPLRAEPRPAVPDAPRNQNLPF PAPQTDSALPGA VRG*RAR*YH *SRTTTPPDEHDHSWARACSP
9191	39559	B	9250	1	2681	

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9192	39560	A	9251	933	1828	VSRIHVLVWQPRMPAPPAVDW LTY/GSGIL/SGNKLVGTPLVEY TRDSLH/RETLRSFASMAGSNA AY/*LTSTDTPAGQLQSQH/LNS LVYDRDYGWSDNGD/LVRISGP RQTREYGSA/TGRLESVRTLA PDLDI/RIPYATDPAGNRLPDPE/ LHPDMRADGGATGQKVEPEYT PARKAHLYHWTTGDCRWRLSA KTAIRVERGI**MGQPAY*GEPH HVYQPR*TWHWRWRQKGRKS ASGRRYLRPINPNNVGRENQRP TSPDGTHMAPISLMAWQPIQLR YRGHVRQRQLSAVGERIYRYLPP
9193	39561	A	9252	1	1409	MECDASALLRYDSRQFIPLAID GLAKDVLGRRFALEGHPRLEAI ARAGDVVVRFPADSELPDPYDG LIPGQESLKVKHACVGLPLFAGQ NLIGALTLDGMQPDQFDVFSDE ELRLIAA\LAAGALSNALLIEQL ESQNMLPGDATPFEAVKQTQM IGLSPGMTQLKKEIEIVAASDLN VLISGETGTGKELVAKAIHEASP RAVNPLVYLNCAALPESVRKSE LFGHVKGAFTGAIISNRSGKFEM ADNGTFLDEIGELSLVLQAKL LRVGQYGDIQRGDDRCLRVD VRVLAATNRDLREEVLAGRFR ADLFHRLSVFPLSVPPRLERGD DVILLAGYFCEQCRLRQGLSRV VLSAGARNLLQHYSFPGNVREL EHAIHRAVVLALARATRGDEVIL EAQHFCAFPEVTLPTEVAAPV VKQSLREAT*AFQRETIRQALA QNRRKWTACARMLETSVANV HRLGKRLVLKK
9194	39562	A	9253	389	799	PQFLIPSVTPCMFIHPLDAK/AR DLRRGDVKVVSSRRGEVISIVE TRGRNRPPQGLVYMPFFDAAQ LVNKLTLDATDPLSKETDFKKC AVKLEKACPYDTLKLATLASG LSAGTPYFVARDIPCEMCEDIPC AKVCPS

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9195	39563	A	9254	588	1500	RHPPIPAKIGLHAVAQDRA\NN MQAGPNINEERMPGWRDPRNF IIVSDPYPTVSALAADL/TPEVSK FPGSELAEDQLNDESRELGFYL QKGLFEYEAWFGRGHGHDLP FDDYHKARGRLWPVVNGKET QWRYSEGNDPYVKAGEGYKF YGKPDGKAVIFALPFEPAAEAP DEEYDLWLSTGRVLEHWHTGS MTLRVP*LHRAFPDAGLF\YPL DAKARDLRRGDKVVKVVSRRGE VISIVETGRNRPPQGLVYMPFF DAAQLVNKLTLTADPLSKET DWPHFSSSTYNGPLLQGANQIL VQQH
9196	39564	A	9255	1	1698	MEREQDSIIMDAATTRNLEITQ NLAGGAENTLASVLDCTVT\PM GSRMLKRWLHMPVRDTRVLLE RQQTIGALQDFTAGLQPVLRQV GDLERILARLALRTARPRDLAR MRHAFQQLPELRAQLETVDSA PVQALREKMGEFAELRDLLER AIIDTPPVLSWMMSGARWLTARP IICNYEVDRTRHTKMNVDVQ RLSVAVVNVYKTLPDGKPLPLS NEQMKGIEDLTREAMGFSEKR GDSLNVVNSPFNNSDESG
9197	39565	A	9256	590	910	SCSIQLSPWILPRTVMCPGFTC ELLST*WLAKEPLKTVSWITIRS FTAETSTFGPTMTASMTFLPTY CSIIASLLSSFKLAAAILNSLPQI GRYITIGSGVRRNA
9198	39566	A	9257	1	854	MANRMILNETAWFGRGAVGAL LTDEVKRRGYQKALIVTDKTL VQCGVVAKVTDKMDAAGLAF AIYDGVVANQHYCRQDSSEDF AEMS LIEGRRGLRRRPLWEFEI DTARQQLNLQFGTRDLVGFV ENAPRLCAAGCLLQYAKDTQ RTTLPHIRSITMEREQDSIIMDA ATTRNLEITQNLAGGAENTLAS VLDCTVTPMSRMLKRWLHM PVRD/DPRVA*APANYWRIAGF HRRATAGTAGSRRPGTYSGTSG FTNCSPTRSGPYAPRFPATAGA ACAVRNCR
9199	39567	B	9258	122	868	

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9200	39568	A	9259	2610	2897	PNLYLRFFFFFLRQESHSVTQA GVQWCNLSSLQPLPPGFKQFSH LTGLPKCWDYRSKRPRPANQT SILDVKEDPY*LHWPRSNRDIK LNLVANP
9201	39569	A	9260	2166	2426	VQPGGCGL*RQHGGSYRPESRTA GGRHRG*RRLRRRAFIDGGANSS GTGICRDAFNRISSHWTGRTGRP DVDSGEHRKTAEQRRDGAVR
9202	39570	A	9261	846	1022	
9203	39571	A	9262	1	1339	MNALSKARQYVEFDGNIASFI FSGKPGTGKNHLAAAICNELL RERNLGESEIHTTSDHMVTATL PGETQTWPEDFRDVEQRQQVVI FQHLVGCVKVVDGKYIQVCTFT VGGNYGGTCLRGDESLVIKKES DIEPLIVVTVQQFHIGNGYVVI TITPSEGERYQGVVGLEGRIRRT RRIRHKQSARCYNLRFKPTCAIT QTTPTEVSPVLKKQLVLVPNPH YPGNKPNFKRVSVKIIGESASRR LQLSRGDIDIADALSDRFVSEAI TAKVEAAIKN*LSQYGILPEEW GGESQFVHVSAKAGTGIDELL\ DAILLQAEVLELKAVRKGMAS GAVIEFPSLDKG\RGPVVTVLV REGTLHKGDIVLCGFYGRVRA MRNELGQEVLÉAGPSIPVEILGL SGVPAAGDEVTVVREDEKKARE VALYRQGKFREVKLARQQKSK LENMFANMTEGEVHEVNIVLK ADVQGSVEAISDSLLKLSTDEV KVKIIGSGVGGITETDATLAAAS NAILEGLFTLTSQDEFVIAPGFS TDPLEEQHSVVSGLLHKYHNR ALLLVKGGAVNCRYCFRRHF PYAENQGNKRNWQTALEYVA AHPELDEMIFSGGDPLMAKDHF ELDWLLTQVHVHQHDVGRRVQ RLPFIHDALFHQQFFNQHQTTF GQVHLARFFVHREVDSLFRRI VLKKMMSPHRVKDRCYCAQFI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9204	39572	A	9263	922	2357	GKGNDEKKI.VSDQ*MGTA*RQ RHPPIPSIPLLW/YPEGPSVSRPE AGGYNSSLMVTHGKVINGRG ILIESD\EPGDAR*SSGSCARHGL VFWLCSRRRCMPQTIEAIQHPN A/VAVNKIDRPEADPDRVKYVL SQYGINPEEWVGESQFVHGSAK AGTGIDELLDAILLQAEVLELK AVRKGMASGAVIESFLDKGRG PVATVLVREGTLHKGDIVLCGF EYGRVRAMRNELGQEVLLEAGP SIPVEILGLSGVPAAGDEVTVVR DEKKAREVALYRQGKFREVKL ARQQQSKKLENMFANMTEGEVH EVNIVLKADVQGSVEAISDSLL KLSTDEVVKVIIGSGVGVIEAES LDRYYSVIYNLIDEVKAAMSG MLSPELKQQIIGLAEVRDVFKSP KFGAIAGCMVTEGVVKRHNPIR VLRDNVVIYEGELESLRRFKDD VNEVRNGMECGIGVKNYNDVR TGDVIEVFEIIEIQRTIA
9205	39573	A	9264	1	748	
9206	39574	A	9265	923	1387	PPNLARCSPSAMARQSPIRSPRR PLAPSPALRAPSPAPPALARLA VPRQA*GLLLALIAVSTHIEMI SNTLAMGWNSPLTTVLALLAC GFACFIEMGKIPFDVAASWIIMI WSQSSTCTAPTLKPLRSVTLMR LTPVSARDLVGYFATAVRLP
9207	39575	A	9266	352	478	CDPTQRKPLYWLQALRRGLPI WRNQRFRKAVR*MAMAPMFS
9208	39576	A	9267	54	811	HTTGGNPLYGI/SRQIAR*QSRV/ GPGFCQDYRDIHKLFRKRQEVP TSSGLMFRLMPWVLISSMLVLA MALPLFITVSPFAGGGDLITLIY LLALFRFFFALSGLDTGSPFAGV GASRELTLGILVEPMLILSLLVL ALIAGSTHIEMISNTLAMGWNS PLTTVLALLACGFACFIEMGKIP FDVAEAEQELQEGPLTEYSGAG LALAKWGLGLKQVVMASLFV DLFLPFGRAQELSL\ACLLTSV VTLLKRL

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9209	39577	A	9268	2	627	CGSIIAL/VAIFKSFFGHYLGTL GLNGLVLKFGYKGDKTKVSLG KLNTISMIFIMGSTVVAYANP NILDLIEAMGAPIIASLLCLPM YAIRKAPSLAKYRGRLDNVPH AITRVDLKEDGKGLKIVRQSLP YGTASGTHGLYFCAYCARLHN EQQLLSMFGDTDAIKAYQSFLA RSAFAVSQCIPVNTVYRAYSVI QNWIAITIRHV
9210	39578	A	9269	2648	3072	LSRTGTKTFAIT/LEYAASIIAL VAIFKSFFGHYLGTLLEGGLNGLV LKFGYKGDKTKVSLGKLNTIS MIFIMGSTVVAYANPNILDLI EAMGAPIIASLLCLPMYAIRK APSLAKYRGRLDNVFVTVIGLL TILNIVYKLF
9211	39579	A	9270	467	614	VPLAVPYGRLWRTIFSPLPSSFR STR*YESMLGRFFERTACLQQ KQF
9212	39580	A	9271	1	846	MSYLVWPFIASLVLISLSPYW NSAVIDQVDLGLSALTGHGIL TVWGG\ISTKVFPNLFPNVFSF GVSK\RKK*KKDFGRDFTERKC SQIISRASMLMVAVVMFFAFSC LFTLSPANMAEAKAQNIPVLSH LANHFASMTGTKTTFSITLEYA ASIIALVAIFKSFFGHYLGTL LNGLVLKFGYKGDKTKVSLGK LNTISMIFIMGSTVVAYANPN ILDLIEAMGAPIIASLLCLPMY AIRKAPSLAKYRGRLDNVFSTV IGLLTILNIVYQLF
9213	39581	A	9272	95	456	RAISMSFRMERPCCLSLPSSL STRVTASSPLSGCSSCTLWISW GRMVRNCSNT/MQLQDLLLRA HLRPKPPMAKLLEPAEGFP GTS CLEAEpstIRDVVLIASQP ASQGSQI
9214	39582	A	9273	1	1241	

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9215	39583	A	9274	3	1608	SRGFPRREFSGPSIKKKVDA TQ AQWPVHAVITNSTYDGLLYNT DWIKQTLDVPSIHLDSAWVPYT HFHPIYQGKSGMSGERGAGKV FEPQ*AHRLAALSQGSLILIKG EYDQEAFSEAFMRHSPSSPSYPI GG\SVETAAAMLRGNPGKRLIN RSVERALHFRKEVQRLREESDG WFFDIWQPPQVDEAECWPVAP GEQWHGFNDADADHMFLDPV KVTLTPGMDEQGNMSEEGIPA ALVAKFLDERGIVVEKTGPYNL LFLFSIGIDKTKAMGLLRGLTEF KRSYDLNLRIKNMLPDLYAEDP DFYRNMRIQDLAQGIHSRRVT SVSSGSQANQQVNFIGDQSTA LTLSVPSGDITVTNTAPQYMTA TLQDKNGNPLKDKEITFSVPND VASKFSISNGGKGMTDSNGVAI ASLTGTLAGTHMIMARLANSN VSDAQPMTFVADKDRAVVVLQ TSKAEIIGNGVDETTLTATVKD PSNHPVAGITVNFTMPQEGVYA MSLEYIILTFIALNGSRMWINS REKRTQRND
9216	39584	A	9275	106	709	LRSAEDNDTREKNKQTNRSDS KLRLVETSGSPPTSSSQTPDPAF RYPKKY\CVEDCS\YRPE*PRITP DNRLLYGGGVVYVGARDPDVVE RLVVPKLLKTFPQLKGKVIDYR WTGNFLTLSRMPQYGRLDTN YYMQGYSGHGVTCNHLAGRLI AELLRGDAERFDAFANLPHYPF PGGRTLVPFTTKSAAYY\SLR DRLGV
9217	39585	A	9276	140	558	RKPHRQRGEKAGRNRSDGCC EKAMSVIIVGGGMAGATLALAI SRLSHGALPVHLEATAPESHA HPGFDGRAIALAAGTCQLARI GVWQSLADCATAITTVHVSDR GHAGFGTLSRKITTWGL*QRSW ARWIWYPFAKNYHLAGLTTVV ELQMGGKRLF
9218	39586	A	9277	3799	4086	
9219	39587	A	9278	3017	3184	
9220	39588	B	9279	1	1050	
9221	39589	B	9280	1	1455	
9222	39590	A	9281	374	506	RCIALIAWLTPVLRVTLK*RW RVARR*RAACW*S\WHHSALA P
9223	39591	C	9282	47	406	

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9224	39592	A	9283	1	4749	
9225	39593	B	9284	507	3568	
9226	39594	A	9285	101	638	RQKYS DWSSALVPTAGEPTRH TQTTRAGIAHA\EADFAADILFL LCGKD I STAGGFSFV*LADNKQ HLMPVC FANHTLV KM/PHQSPV PDH/QALISHRIRSSRGSCSRYSA DNSVSRTPLSPTPGRSTMVIKCS PICRRKRKGSRVQAATSLTGDT SPANRALQRLLFPAPVLPMMPI TGS
9227	39595	A	9286	271	532	
9228	39596	A	9287	643	768	
9229	39597	A	9288	1	1948	MCSHAAGCTIPDVEHWTRINR KVPRLVSVLPNGPDYHPTVRAF LAGGVPEVMLHLRDLGLLHLD AMTVTGQTVGENLEWRPEPGA FRQCLREQDGVEPDDVILPPEK AKAKGLTSTVCFTGNIAPEGS VIKATAIDPSVVVGEDGVYHHTG RVRVFVSEAQAIAKRVVIVA CGFSPTRTAHAASDIDITNTVDL RNRRSQLRGEIVQF/IPANKYR TSA*GS*LAHPTGSLCD*VGRL DIPLAANFVQR*SPPGISPTPV
9230	39598	A	9289	2166	2426	VQPGGCGL*RQHGSYRPESRTA GGRHRG*RRLRRAFIDGGANSS GTGICRDAFNRI SHWTGRTGRP DVDSGEHRKTAEQR RDGA VR
9231	39599	A	9290	846	1022	

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9232	39600	A	9291	1	1336	MNALSKARQYVEEFDGNIASFIFSGKPGTGNHLAAACNELLRRNLGESEIHTTSDHMVTATLPGETQTWPEDFRDVEQRQQVVI FQHLVGCVKVDGKYIQVCTFTVGGNYGGTCLRGDESLVIKKESDIEPLIVVTVVQQFHIGNGYVVI TITPSEGERYQGVVGLEGRIRRT RRIRKQSARCYNLRFKPTCAIT QTTPTEVSPVLKKQLVLVPNPH YPGNKPNSKRVSVKIIGESASRRLQLSRGDIDIAALSDRVSEAI TAKVEAAIKN*LSQYGILPEEW GGESQFVHVSASKAGTGIDELL\ DAILLQAEVLELKAVRKGMAS GAVIESFLDKGRGPVATVLVRE GTLHKGDIVLCGFYGRVRAM RNELGQEVLAEAGPSIPVEILGLS GVPAAAGDEVTVRDEKKAREV ALYRQGKFREVKLARQQKSLENMFANMTEGEVHEVNIVLKA DVQGSVEAISDSLLKLSTDEVK VKIIGSGVGGITETDATLAAASN AILEGLFTLTSQDEFVIAPGFSTDPLEEQHSVVSGLLHKYHNRA LLLVKGGCAVNCRYCFRRHFP YAENQGNKRNWQTALEYVAA HPELDEMIFSGGDPLMAKDHEL DWLLTQVHVQHDVGRRVQRL PFIHDALFHQQFFNQHQTTFGQ VHLARFFVHREVDSILFRRISVL KKMMSPHRVKDRCYCAQFICP
9233	39601	B	9292	1	2890	
9234	39602	A	9293	1	822	ITQYCDSTICLISKGLGTPVGSL LVGNRDYIKRAIRWRKMTGGG MRQSGILAAAGIYALKNNVAR LQEDHDNAAWMAEQ\LRETGA\DVMRQDTNML\FVRVGEEN AAALGEIT*KP\RNVL\INASPIV RLERDVPQRILVLGASGYIGQH LVRTLSQQGHQILAAARHVDR LAKLQLANVSCHKVDLSWPDN LPALLQDIDTVYFLVHSMGEAA IYRSSAGVASVSSVFYCLRPSY DPRVFPCFLCCRALLVLPTRLIYSPLSFALVLSAPIK
9235	39603	A	9294	1565	1825	SRMCVAIRSRNQRSCEITIAQPG NSSRAFSSARRVSISRSLVGSSSS SMLPPTCSSFARCRPRSPPESS PTRLP*STPLKLKRPT

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9236	39604	A	9295	236	742	VATRCSRSPSPSLPSLRLVMPTTSAVSFMITAKSSPAVLKLSNASERVNVS GTISVLRIC TPLFSA RLWLASTRSRSLEST*PMMWS ISSLQTRNLECGCSATLFFRLCS SSWRSN/TNDVFTA VTLITERDG IPAQR RFQSARVPVYVTRPPAH RLPLP RRC HQK
9237	39605	B	9296	1	951	
9238	39606	B	9297	1	666	
9239	39607	A	9298	761	1162	IILGSMAIFTI LILPIHEQGMFFHL FVTFSILLSSGL*FSLKRSFTSLV SCIPRYFILFVAIVNGSSLVIWLS VFLLFVYRNACDFCTLILYPETL LKLLISLRRFWAETLGFSKYTIM SSANRDNL TSSFPN
9240	39608	A	9299	82	160	
9241	39609	B	9300	64	477	
9242	39610	A	9301	408	507	LLPLFQNLLL VYSGI*LLPGLVW KGCMHPGIY
9243	39611	A	9302	1	3141	MLLGLHSLAAF LQRESFGKQS WGCQLAALLQRRITKMTEAMK ITLSTQPADARWG EKATYSINN DIGTLHLNGADDLGLIQRAARK IDGLGIKHVQLSGEGWDADRC WAFWQGYKAPKGTRKVVWPDLDDAQRQELDNRLMIIDWVRD TINAPAEELGPSQLAQRAVDLIS NVAGDRV TYRITKGEDLREQG YMGLHTVGRGSERSPVLLALD YNPTGDKEAPVYACLLGDIITY RNGKKVEVMNTDAEGR LV
9244	39612	A	9303	1	983	MVRASGYLQT LDDFNHIVLKA SENGVPVYLRDVAKVQIGPEM RRGIAELN GEGEVAGGVVILRS GKNAREVIAAVKDKLETLKSSL PEGVEIVTTYDRSQLIDRAIDNL SGKLLEEFIVVAVVCAFLWHV RSALVAIISPLGLCIAFIVMHFQ GLNANIMSLGGIAIAVGAMVD AAI VMIENA/R*TAGRVAAPAS* RHAG**NALAGQEGR LFGPLAL HQNVCDGGCGAAGDRSDPD PD GLLD PWQNSAGKQ*PAQSLFDS CLSSAVAESTALAENHAAGGG AFGADGSLAAQ*SSPGEFLPQIN EG DLLYMP CDAAQGIPQQRRR
9245	39613	A	9304	362	436	
9246	39614	A	9305	101	208	
9247	39615	C	9306	1	882	
9248	39616	B	9307	1	822	